

Schedule 5

Continuing Airworthiness

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SUBPART A: GENERAL

5.001 APPLICABILITY

- (a) This Schedule prescribes the requirements for—
 - (1) Certification of aircraft and aeronautical components;
 - (2) Issuance of Airworthiness Certificates and other certifications for aeronautical products;
 - (3) Continued airworthiness of aircraft and aeronautical components;
 - (4) Rebuilding and modifications of aircraft and aeronautical components;
 - (5) Maintenance and preventive maintenance of aircraft and aeronautical components;
 - (6) Aircraft inspection requirements; and
 - (7) Air operator aircraft maintenance and inspection requirements.
- (b) This Schedule is applicable to the owners and operators of aircraft registered in The Bahamas and the persons and organisations that provide maintenance services for these aircraft.
- (c) For the purpose of this Schedule, the word “aircraft” or related words, such as “aeroplane” and “helicopter”, includes engines, propellers, power transmissions, rotor components, accessories, instruments, equipment and apparatus including emergency equipment.

5.005 DEFINITIONS

- (a) All definitions applicable to this Schedule are contained in Schedule 1 (Appendix 1 to 1.015) of these Regulations.

5.010 ACRONYMS

- (a) The following acronyms are used in this Schedule—
 - AOC** – Air Operator Certificate
 - AMO** – Approved Maintenance Organisation
 - MEL** – Minimum Equipment List
 - PIC** – Pilot in command
 - TSO** – Technical Standard Order

SUBPART B: CERTIFICATES OF AIRWORTHINESS

5.015 APPLICABILITY

- (a) This Subpart prescribes requirements for the issue, effectivity, transfer, expiration or termination and renewal of Certificates of Airworthiness and related documents.

5.020 ELIGIBILITY

- (a) Any registered owner of a Bahamas-registered aircraft, or agent of the owner, may apply to the Authority for a Certificate of Airworthiness for that aircraft.
- (b) Each applicant for an Certificate of Airworthiness shall apply in a form and manner acceptable to the Authority.

5.025 CLASSIFICATIONS OF CERTIFICATES OF AIRWORTHINESS

- (a) Standard Certificates of Airworthiness will be issued for aircraft in the specific category and model designated by the State of Design in the type certificate.
- (b) The the Authority may issue a Special Airworthiness Certificate in the form of a:
 - (1) Restricted certificate;
 - (2) Experimental certificate; or

- (3) Special flight permit.
- (c) The Authority may issue an Export Certificate of Airworthiness for an aircraft registered in The Bahamas that is being exported to the registry of another Contracting State.

5.030 ISSUE OF A STANDARD CERTIFICATE OF AIRWORTHINESS

- (a) The Authority will issue a Standard Certificate of Airworthiness if—
 - (1) The applicant presents evidence that the aircraft is properly registered and marked, including identification plates;
 - (2) The applicant presents evidence to the Authority that the aircraft conforms to a type design approved under a type certificate or a supplemental type certificate and to the applicable Airworthiness Directives of the State of Manufacture;
 - (3) The aircraft has been inspected in accordance with the performance rules of this Schedule for inspections and found airworthy by persons authorised by the Authority to make such determinations within the last 30 calendar days; and
 - (4) The Authority finds after an inspection that the aircraft conforms to type design and is in condition for safe operation.
- (b) The Authority may validate an Certificate of Airworthiness issued by another Contracting State upon registration of the aircraft in The Bahamas for the period specified in that certificate, but not more than 12 calendar months.

5.035 ISSUE OF SPECIAL CERTIFICATE OF AIRWORTHINESS

- (a) The Authority may issue a Special Certificate of Airworthiness to the aircraft that does not qualify for a Standard Certificate after considering the requirements specified in Section 5.030(a) of this Schedule.
- (b) Aircraft holding Special Certificates of Airworthiness—
 - (1) Shall be subject to operating limitations specified with the issuance of the certificate; and
 - (2) May not be operated on international flights without the approval of the State that will be overflown.

5.040 EFFECTIVITY: CERTIFICATES OF AIRWORTHINESS

- (a) A Certificate of Airworthiness is valid on the date that all conditions for issuance are met and that date has been entered on the certificate as the date of issue.
- (b) A Certificate of Airworthiness issued under this Schedule expires—
 - (1) 3 years after the last day of the month in which it is issued, unless sooner surrendered, suspended or revoked; or
 - (2) Upon a special expiration date otherwise established by the Authority.
- (c) A Certificate of Airworthiness shall remain valid until its expiration date provided that the continuing airworthiness of the aircraft shall be determined by a periodical inspection, at appropriate intervals, required by the Authority having regard to lapse of time and type of service.

5.045 RENEWAL OF CERTIFICATES OF AIRWORTHINESS

- (a) Each holder of a Certificate of Airworthiness may apply for renewal by submitting—
 - (1) An application in the form and manner prescribed by the Authority;
 - (2) The required fee during the 30 days preceding the expiration date;
 - (3) Providing evidence of the airworthiness status of the aircraft; and
 - (4) Completion of the required inspections.

5.047 AMENDMENT OF A CERTIFICATE OF AIRWORTHINESS

- (a) The Authority may amend or modify a Certificate of Airworthiness—

- (1) Upon application from an operator; or
- (2) On its own initiative.

5.050 TRANSFER OR SURRENDER OF A CERTIFICATE OF AIRWORTHINESS

- (a) An owner shall transfer a Certificate of Airworthiness to the—
 - (1) Lessee upon lease of an aircraft within or outside of The Bahamas;
 - (2) Buyer upon sale of the aircraft within The Bahamas.
- (b) An owner shall surrender the Certificate of Airworthiness for the aircraft to the issuing State of Registry upon sale of that aircraft outside of The Bahamas.

5.055 AIRWORTHINESS DIRECTIVES

- (a) Upon registration of an aircraft in The Bahamas, the Authority will—
 - (1) Notify the State of Design of the aircraft of the registration in The Bahamas; and
 - (2) Request that the Authority receives any and all airworthiness directives addressing that aircraft, airframe, aircraft engine, propeller, appliance, or component part.
- (b) Whenever the State of Design considers that a condition in an aircraft, airframe, aircraft engine, propeller, appliance, or component part is unsafe, as shown by the issuance of an airworthiness directive by that State, the Authority will make the requirements of such directives apply to Bahamas-registered civil aircraft of the type identified in that airworthiness directive.
- (c) The Authority may identify manufacturer's service bulletins and other sources of data, or develop and prescribe inspections, procedures and limitations, for mandatory compliance pertaining to affected aircraft in The Bahamas.
- (d) No person may operate any Bahamas-registered civil aircraft to which the measures of this Section apply, except in accordance with the applicable directives.

5.060 VALIDATION OF A NOISE CERTIFICATE

- (a) The aircraft owner shall provide evidence of a noise certificate approved by the State of Design or Manufacturer.
- (b) If the noise certificate is issued in a language other than English, an English translation shall be provided to the Authority.
- (c) The Authority shall determine the validity of the noise certificate provided.
- (d) The Authority shall validate the State of Design Noise Certificate for the aircraft by the issuance of a Certificate of Airworthiness.
- (e) Such validation may be confirmed by the Authority through the issuance of—
 - (1) A notation of the validation on the Certificate of Airworthiness; or
 - (2) A separate Noise Certificate conforming to the contents required by ICAO Annex 16.
- (f) The confirming document or notation shall be issued in the English language.

5.062 AIRCRAFT FLIGHT MANUAL

- (a) The owner or operator shall provide to the Authority an aircraft flight manual specific to the aircraft when applying for a certificate of airworthiness.
- (b) The Authority shall determine the validity and conformance of the aircraft flight manual with regard to the specific aircraft prior to issue of the certificate of airworthiness.
- (c) The aircraft flight manual shall be updated by implementing changes made mandatory by the State of Registry.

5.065 ISSUE OF A SPECIAL FLIGHT PERMIT

- (a) The Authority may issue a Special Flight Permit to an aircraft that is capable of safe flight, but unable to meet applicable airworthiness requirements, for the purpose of—
 - (1) Flying to a base where repairs, modifications, maintenance, or inspections are to be performed, or to a point of storage;
 - (2) Testing after repairs, modifications, or maintenance have been performed;
 - (3) Delivering or exporting the aircraft;
 - (4) Evacuating aircraft from areas of impending danger; or
 - (5) Operating at weight in excess of the aircraft's maximum Certified Takeoff Weight for flight beyond normal range over water or land areas where adequate landing facilities or appropriate fuel is not available. The excess weight is limited to additional fuel, fuel-carrying facilities, and navigation equipment necessary for the flight.
- (b) The Authority may issue a special flight permit with continuing authorisation to an aircraft that may not meet applicable airworthiness requirements, but is capable of safe flight, for the purpose of flying aircraft to a base where maintenance or modifications are to be performed.
 - (1) The permit issued under this paragraph is an authorisation, including conditions and limitations for flight, which are set forth in the AOC Holder's specific operating provisions;
 - (2) The permit under this paragraph may be issued to an AOC Holder certificated under Schedule 12.
- (c) In the case of the Special Flight Permits, the Authority shall require a properly executed maintenance endorsement in the aircraft's permanent record by a person or organisation, authorised in accordance with this Schedule, stating that the subject aircraft has been inspected and found to be safe for the intended flight.
- (d) The operator shall obtain all required overflight authorisations from countries to be overflown on flights outside of The Bahamas.

SUBPART C: CONTINUED AIRWORTHINESS

5.070 APPLICABILITY

- (a) This Subpart prescribes rules governing the continued airworthiness of civil aircraft registered in The Bahamas whether operating inside or outside the borders of The Bahamas.

5.075 OWNER'S MAINTENANCE RESPONSIBILITIES

- (a) The owner of an aircraft, or in the case where it is leased, the lessee, shall ensure that, in accordance with procedures acceptable to the Authority—
 - (1) The aircraft is maintained in an airworthy condition;
 - (2) The operational and emergency equipment necessary for an intended flight is serviceable; and
 - (3) The certificate of airworthiness of the aircraft remains valid.
- (b) The owner or the lessee shall not operate the aircraft unless it is maintained and released to service under a system acceptable to the Authority.
- (c) The owner of an aircraft or, in the case of a leased aircraft, the lessee, shall be responsible for maintaining the aircraft in an airworthy condition by ensuring that—
 - (1) The maintenance of the aircraft is performed in accordance with a maintenance program acceptable to the Authority;
 - (2) All maintenance, overhaul, modifications and repairs which affect airworthiness are performed as prescribed by the Authority;
 - (3) Maintenance personnel make appropriate entries in the aircraft maintenance records certifying that the aircraft is airworthy;

- (4) The maintenance release is completed to the effect that the maintenance work performed has been completed satisfactorily and in accordance with the prescribed methods; and
- (5) In the event that there are open defects, the maintenance release includes a list of the uncorrected known or suspected defects and these items are made a part of the aircraft permanent record.

5.080 GENERAL

- (a) No person may perform maintenance, preventive maintenance, or modifications on an aircraft other than as prescribed in this Schedule.
- (b) No person may operate an aircraft for which a manufacturer's maintenance manual or instructions for continued airworthiness has been issued that contains an airworthiness limitation section, unless the aircraft is in compliance with the—
 - (1) Mandatory replacement times, inspection intervals, and related procedures specified in that section or alternative inspection intervals; and
 - (2) Related procedures set forth in the specific operating provisions approved under Schedule 12; or
 - (3) Inspection program approved by the Authority.
- (c) Except as in accordance with the requirements of an applicable Airworthiness Directive, no person may operate an aeronautical product to which such an Airworthiness Directive applies that has been issued by either the—
 - (1) State of Design; or
 - (2) State of Manufacture adopted for Bahamas-registered aircraft by the Authority; or
 - (3) State of Registry.
- (d) When the Authority determines that an airframe or aeronautical product has exhibited an unsafe condition and that condition is likely to exist or to develop in other products of the same type design, the Authority may issue an Airworthiness Directive prescribing inspections and the conditions and limitations, if any, under which those products may continue to be operated.

5.085 REPORTING OF FAILURES, MALFUNCTIONS & DEFECTS

- (a) Owners or operators of aeroplanes over 5,700 kg and helicopters over 3,175 kg maximum take-off weight shall report to the Authority any failures, malfunctions, or defects that result in at least the following information resulting from maintenance and operational experience with respect to continuing airworthiness is transmitted to the Authority and the State of Design—
 - (1) Fires during flight and whether the related fire-warning system properly operated;
 - (2) Fires during flight not protected by a related fire-warning system;
 - (3) False fire warning during flight;
 - (4) An engine exhaust system that causes damage during flight to the engine, adjacent structure, equipment, or components;
 - (5) An aircraft component that causes accumulation or circulation of smoke, vapour, or toxic or noxious fumes in the crew compartment or passenger cabin during flight;
 - (6) Engine shutdown during flight because of flameout;
 - (7) Engine shutdown during flight when external damage to the engine or aircraft structure occurs;
 - (8) Engine shutdown during flight due to foreign object ingestion or icing;
 - (9) Shutdown during flight of more than one engine;
 - (10) A propeller feathering system or ability of the system to control overspeed during flight;
 - (11) A fuel or fuel-dumping system that affects fuel flow or causes hazardous leakage during flight;
 - (12) An unintended landing gear extension or retraction, or opening or closing of landing gear doors during flight;

- (13) Brake system components that result in loss of brake actuating force when the aircraft is in motion on the ground;
 - (14) Aircraft structure that requires major repair;
 - (15) Cracks, permanent deformation, or corrosion of aircraft structure, if more than the maximum acceptable to the manufacturer or the Authority;
 - (16) Aircraft components or systems malfunctions that result in taking emergency actions during flight (except action to shut down an engine);
 - (17) Each interruption to a flight, unscheduled change of aircraft en route, or unscheduled stop or diversion from a route, caused by known or suspected technical difficulties or malfunctions;
 - (18) Any abnormal vibration or buffeting caused by a structural or system malfunction, defect, or failure;
 - (19) A failure or malfunction of more than one attitude, airspeed, or altitude instrument during a given operation of the aircraft;
 - (20) The number of engines removed prematurely because of malfunction, failure or defect, listed by make and model and the aircraft type in which it was installed; or
 - (21) The number of propeller featherings in flight, listed by type of propeller and engine and aircraft on which it was installed.
- (b) Each report required by this section shall -
- (1) Be made within 3 days after determining that the failure, malfunction, or defect required to be reported has occurred; and
 - (2) Include as much of the following information as is available and applicable—
 - Aircraft serial number;
 - When the failure, malfunction, or defect is associated with an article approved under a TSO authorisation, the article serial number and model designation, as appropriate;
 - When the failure, malfunction or defect is associated with an engine or propeller, the engine or propeller serial number, as appropriate;
 - Product model;
 - Identification of the part, component, or system involved, including the part number; and
 - Nature of the failure, malfunction, or defect.
- (c) The Authority, if the Authority is the State of Registry of the aircraft, will submit all such reports upon receipt to the State of Design.
- (d) The Authority, if not the State of Registry of the aircraft, will submit all such reports upon receipt to the State of Registry.

SUBPART D: AIRCRAFT MAINTENANCE REQUIREMENTS

5.090 APPLICABILITY

- (a) This Subpart prescribes the rules governing the maintenance and inspection of Bahamas-registered civil aircraft operating within or outside The Bahamas.
- (b) Unless otherwise approved by the Authority, this Subpart prescribes the minimum requirements that apply to aircraft operated by the holder of an AOC issued by The Bahamas.
- (c) Sections 5.105 and 5.110 do not apply to aircraft subject to an approved continuous maintenance program approved by the Authority for an AOC holder in Schedule 12.

5.095 GENERAL

- (a) The registered owner or operator of an aircraft is primarily responsible for maintaining that aircraft in an airworthy condition, including compliance with all airworthiness directives and mandatory service bulletins issued by the State of Design or Manufacture.

- (b) No person may perform maintenance, preventive maintenance, or modifications on an aircraft other than as prescribed in this Schedule and other applicable Schedules.
- (c) No person may operate an aircraft for which a manufacturer's maintenance manual or instructions for continued airworthiness has been issued that contains an airworthiness limitations section unless the mandatory replacement times, inspection intervals and related procedures set forth in specific operating provisions approved by the Authority under Schedule 12 or in accordance with an inspection program approved under this Schedule.

5.097 REPAIR ASSESSMENT FOR PRESSURISED FUSELAGES

- (a) No person may operate an aeroplane with a gross takeoff weight of 5700 Kg beyond the flight cycles prescribed by the Authority for such aircraft unless repair assessment guidelines applicable to the fuselage pressure boundary (fuselage skin, door skin and bulkhead webs) that have been approved by the competent Authority of the State of Design or Manufacture having cognizance over the type certificate for the affected aeroplane, are incorporated within its inspection program.

5.100 MAINTENANCE REQUIRED

- (a) Each owner or operator of an aircraft shall—
 - (1) Have that aircraft inspected as prescribed in this Schedule and known defects repaired as prescribed in the Performance Rules of this Schedule;
 - (2) Repair, replace, remove, or inspect any inoperative instruments or items of equipment before the next flight, except when permitted under the provisions of an Minimum Equipment List (MEL);
 - (3) Ensure that a placard has been installed on the aircraft when known defects include inoperative instruments or equipment; and
 - (4) Ensure that maintenance personnel make appropriate entries in the aircraft maintenance records indicating the aircraft has been issued a maintenance release.

5.105 INSPECTIONS

Annual Inspection

- (a) Except as provided in paragraph (c), no person may operate an aircraft unless, within the preceding 12 calendar months, the aircraft has had—
 - (1) An annual inspection in accordance with this Schedule and has been issued a maintenance release by a person authorised under this Schedule; or
 - (2) An inspection for the issuance of a Certificate of Airworthiness in accordance with this Schedule.

Note: No inspection performed under paragraph (b) of this Section may be substituted for any inspection required by this paragraph unless it is performed by a person authorised to perform annual inspections and is entered as an "annual" inspection in the required maintenance record.

100-Hour Inspection

- (b) Except as provided in paragraph (c), no person may operate an aircraft carrying any person (other than a crew member) for hire, and no person may give flight instruction for hire in an aircraft which that person provides, unless within the preceding 100 hours of time in service—
 - (1) The aircraft has received an annual or 100-hour inspection and been issued a maintenance release in accordance with this Schedule; or
 - (2) Has received an inspection for the issuance of a Certificate of Airworthiness in accordance with this Schedule.

Note: The 100-hour limitation may be exceeded by not more than 10 hours while en route to reach a place where the inspection can be done. The excess time used to reach a place where the inspection can be done must be included in computing the next 100 hours of time in service.

Special Exceptions

- (c) Paragraphs (a) and (b) of this Section do not apply to—
- (1) An aircraft that carries a special flight permit, a current experimental certificate, or a provisional Certificate of Airworthiness;
 - (2) An aircraft subject to the requirements of Section 5.110 of this Section; or
 - (3) Turbine-powered rotorcraft when the operator elects to inspect that rotorcraft in accordance with Section 5.110 of this Subpart.

Other Inspections

- (d) The altimeter, altimeter system, transponder and VOR inspections required by Schedule 10, should be accomplished as prescribed by the Authority.

See Appendix 1 to 5.105 for tests and checks of the altimeter system.

See Appendix 2 to 5.105 for tests and checks of the ATC transponder.

See Appendix 3 to 5.105 for tests and checks the VOR receiver.

5.110 PROGRESSIVE INSPECTION

- (a) Each registered owner or operator of an aircraft desiring to use a progressive inspection program shall submit a written request to the Authority, and shall provide—
- (1) A licenced mechanic holding an inspection authorisation in accordance with Schedule 8, an AMO appropriately rated in accordance with Schedule 6, or the manufacturer of the aircraft to supervise or conduct the progressive inspection;
 - (2) A current inspection procedures manual, available and readily understandable to the pilot and maintenance personnel containing, in detail—
 - (i) An explanation of the progressive inspection, including the continuity of inspection responsibility, the making of reports, and the keeping of records and technical reference material;
 - (ii) An inspection schedule, specifying the intervals in hours or days when routine and detailed inspections will be performed and including instructions for exceeding an inspection interval by not more than 10 hours while en-route and for changing an inspection interval because of service experience;
 - (iii) Sample routine and detailed inspection forms and instructions for their use; and
 - (iv) Sample reports and records and instructions for their use;
 - (3) Enough housing and equipment for necessary disassembly and proper inspection of the aircraft; and
 - (4) The appropriate current technical information for the aircraft.
- (b) The frequency and detail of the progressive inspection shall provide for the complete inspection of the aircraft within each 12 calendar months and be consistent with the current manufacturer's recommendations, field service experience, and the kind of operation in which the aircraft is engaged.
- (c) The progressive inspection schedule shall ensure that the aircraft, at all times, will be airworthy and will conform to all applicable aircraft specifications, type certificate data sheets, airworthiness directives, and other approved data acceptable to the Authority.
- (d) If the progressive inspection is discontinued, the owner or operator shall immediately notify the Authority, in writing, of the discontinuance.
- (e) After the discontinuance, the first annual inspection under Schedule 10 is due within 12 calendar months after the last complete inspection of the aircraft under the progressive inspection.
- (f) The 100-hour inspection under this Subpart is due within 100 hours after that complete inspection;

- (g) A complete inspection of the aircraft, for the purpose of determining when the annual and 100 hour inspections are due, requires a detailed inspection of the aircraft and all its components in accordance with the progressive inspection;
- (h) A routine inspection of the aircraft and a detailed inspection of several components is not considered to be a complete inspection.

5.113 INSPECTION PROGRAMMES FOR LARGE & TURBINE AIRCRAFT

- (a) Except for aircraft operated under an AOC, the registered owner or operator of each large aeroplane, turbojet multi-engine aeroplane, turbo propeller-powered multi-engine aeroplane, and turbine-powered rotorcraft shall select, identify in the aircraft maintenance records, and use one of the following programs for the inspection of the aircraft—
 - (1) A current inspection program recommended by the manufacturer;
 - (2) An inspection program that is part of a continuous maintenance program for that make and model of aircraft currently approved by the Authority for use by an AOC holder; or
 - (3) Any other inspection program established by the registered owner or operator of that aircraft and approved by the Authority.
- (b) Each owner/operator shall include in the selected program the name and address of the person responsible for the scheduling of the inspections required by the program and provide a copy of the program to the person performing inspection on the aircraft.
- (c) No aircraft shall be issued a maintenance release unless the replacement times for life-limited parts specified in the aircraft specification-type data sheets are complied with and the aeroplane, including airframe, engines, propellers, rotors, appliances, and survival and emergency equipment, is inspected in accordance with the inspection program selected.
- (d) Each person wishing to establish or change an approved inspection program shall submit the program for approval by the Authority and shall include in writing—
 - (1) Instructions and procedures for the conduct of inspection for the particular make and model aircraft, including necessary tests and checks;
 - (2) The instructions shall set forth in detail the parts and areas of the aeronautical products, including survival and emergency equipment required to be inspected; and
 - (3) A schedule for the inspections that shall be performed expressed in terms of time in service, calendar time, number of system operations or any combination of these.
- (e) When an operator changes from one inspection program to another, the operator shall apply the time in service, calendar times, or cycles of operation accumulated under the previous program, in determining the time the inspection is due under the new program.

5.115 CHANGES TO AIRCRAFT MAINTENANCE PROGRAMS

- (a) Whenever the Authority finds that revisions to an approved inspection program are necessary for the continued adequacy of the program, the owner or operator shall, after notification by the Authority, make any changes in the program found to be necessary.
- (b) The owner or operator may petition the Authority to reconsider the notice, within 30 days after receiving that notice.
- (c) Except in the case of an emergency requiring immediate action in the interest of safety, the filing of the petition stays the notice pending a decision by the Authority.

SUBPART E: PERFORMANCE STANDARDS

5.135 APPLICABILITY

- (a) This Subpart prescribes performance standards governing the maintenance and inspection of any aircraft having a Certificate of Airworthiness issued by The Bahamas or associated aeronautical products.

5.140 AUTHORISED PERSONS: GENERAL

- (a) The persons authorised to perform maintenance subject to this Subpart include—
 - (1) A pilot licenced by the Authority;
 - (2) A person performing maintenance under the supervision of a aviation maintenance technician;
 - (3) A aviation maintenance technician;
 - (4) An AOC holder approved to perform maintenance under an equivalent system; and
 - (5) An AMO.
- (b) This Subpart outlines the privileges and limitations of these entities with respect to the extent and type of work they may perform regarding—
 - (1) Maintenance;
 - (2) Preventive Maintenance;
 - (3) Modification;
 - (4) Inspection; and
 - (5) Approvals for return to service.

5.145 PERFORMANCE OF MAINTENANCE

- (a) No person may perform any task defined as maintenance on an aircraft or aeronautical products, except as provided in the following—
 - (1) A pilot licenced by the Authority may perform preventive maintenance on any aircraft owned or operated by that pilot so long as the aircraft is not listed for use by an AOC holder;
 - (2) A person working under the supervision of a aviation maintenance technician, may perform the maintenance, preventive maintenance, and modifications that the supervisory aviation maintenance technician is authorised to perform provided the supervising person—
 - (i) Personally observes the work being done to the extent necessary to ensure that it is being done properly; and
 - (ii) Is readily available, in person, for consultation.
 - (3) A licenced aviation maintenance technician may perform or supervise the maintenance or modification of an aircraft or aeronautical product for which he or she is rated subject to the limitation of this Schedule;
 - (4) An AMO may perform aircraft maintenance within the limits authorised by the Authority;
 - (5) The AOC holder may perform aircraft maintenance as authorised by the Authority;
 - (6) A manufacturer holding an AMO may—
 - (i) Rebuild or alter any aeronautical product manufactured by that manufacturer under a type or production certificate;
 - (ii) Rebuild or alter any aeronautical product manufactured by that manufacturer under a TSO Authorisation, a Parts Manufacturer Approval by the State of Design, or Product and Process Specification issued by the State of Design; and
 - (iii) Perform any inspection required by this Schedule on aircraft it manufacturers, while currently operating under a production certificate or under a currently approved production inspection system for such aircraft.

5.150 AUTHORISED PERSONNEL TO CERTIFY FOR MAINTENANCE RELEASE

- (a) No person or entity, other than the Authority, may approve an aircraft, airframe, aircraft engine, propeller, appliance, or component part for return to service after it has undergone maintenance, preventive maintenance, rebuilding, or modification, except as provided in the following—
- (1) A pilot licenced by the Authority may return his or her aircraft to service after performing authorised preventive maintenance;
 - (2) An aviation maintenance technician licenced under Schedule 8 may approve aircraft and aeronautical products for return to service after he or she has performed, supervised, or inspected its maintenance subject to the limitations of this Schedule;
 - (3) An AMO may approve aircraft and aeronautical products for return to service as provided in the specifications approved by the Authority;
 - (4) An AOC holder may approve aircraft and aeronautical products for return to service as specified by the Authority.

5.155 PERSONS AUTHORISED TO PERFORM INSPECTIONS

- (a) No person, other than the Authority, may perform the inspections required in this Schedule for aircraft and aeronautical products prior to or after it has undergone maintenance, preventive maintenance, rebuilding, or modification, except as provided in the following—
- (1) An aviation maintenance technician may conduct the required inspections of aircraft and aeronautical products for which he or she is rated and current;
 - (2) An AMO may perform the required inspections of aircraft and aeronautical products as provided in their operations specifications;
 - (3) An AOC holder may perform the required inspections of aircraft and aeronautical products in accordance with their operations specifications.

5.160 PERFORMANCE RULES: MAINTENANCE

General

- (a) Each person performing maintenance, preventive maintenance, or modification on an aeronautical product shall use the methods, techniques, and practices prescribed in—
- (1) The current manufacturer's maintenance manual or instructions for Continued Airworthiness prepared by its manufacturer; and
 - (2) Additional methods, techniques and practices required by the Authority; or methods, techniques and practices designated by the Authority where the manufacturer's documents were not available.

Tools & Equipment

- (b) Each person shall use the tools, equipment, and test apparatus necessary to assure completion of the work in accordance with accepted industry practices. If the manufacturer involved recommends special equipment or test apparatus, the person performing maintenance shall use that equipment or apparatus or its equivalent that is acceptable to the Authority.

Equal to Original Condition

- (c) Each person performing maintenance, preventive maintenance, or modification on an aeronautical product shall do that work in a manner, and use materials of such a quality, that the condition of the aeronautical product worked on will be at least equal to its original or properly altered condition with regard to aerodynamic function, structural strength, resistance to vibration and deterioration, and other qualities affecting airworthiness.

AOC Maintenance Control Manual

- (d) The methods, techniques, and practices contained in an AOC holder's maintenance control manual and continuous maintenance program, as approved by the Authority, will constitute an acceptable means of compliance with the requirements of this Section.

Major Modification or Repair: Substantiating Data

- (e) Each person performing a major modification or repair defined in this Schedule will use data approved by the Authority.
- (1) The approved data used must be referenced on the form or log entry used to approve the modification or repair for return to service-
 - (2) Acceptable "approved data" is data specifically approved by one or more of the following entities for the modification or repair—
 - (i) The Authority;
 - (ii) The State of Manufacture;
 - (iii) A Designee authorised by the State of Manufacture for that type modification or repair;
 - (iv) The State of Design; or
 - (v) A Designee authorised by the State of Design for that type modification or repair.
- (f) A person working under supervision of an aviation maintenance technician may not perform any inspection required in this Schedule or any inspection performed after a major repair or modification.

5.165 PERFORMANCE RULES: INSPECTIONS [GENERAL]

- (a) Each person performing an inspection required by the Authority shall—
- (1) Perform the inspection so as to determine whether the aircraft, or portion(s) thereof under inspection, meet all applicable airworthiness requirements; and
 - (2) If there is an inspection program required or accepted for the specific aircraft being inspected, perform the inspection in accordance with the instructions and procedures set forth in the inspection program.

5.166 PERFORMANCE RULES UNIQUE TO ROTORCRAFT

- (a) Each person performing an inspection required on a rotorcraft shall inspect the following systems in accordance with the maintenance manual or Instructions for continued airworthiness of the manufacturer concerning—
- (1) The drive shafts or similar systems;
 - (2) The main rotor transmission gear box for obvious defects;
 - (3) The main rotor and centre section (or the equivalent area); and
 - (4) The auxiliary rotor on helicopters.

5.167 PERFORMANCE RULES: ANNUAL & 100-HOUR INSPECTIONS

- (a) Each person performing an annual or 100-hour inspection shall use a checklist while performing the inspection—
- (1) The checklist may be of the person's own design, one provided by the manufacturer of the equipment being inspected, or one obtained from another source;
 - (2) This checklist shall include the scope and detail of the items prescribed by the Authority.

See Appendix 1 to 5.167 for the components to be included in an annual or 100-hour inspection.

- (b) Each person approving a reciprocating-engine-powered aircraft for return to service after an annual or 100-hour inspection shall, before that approval, run the aircraft engine or engines to determine satisfactory performance in accordance with the current manufacturer's recommendations of—
- (i) Power output (static and idle rpm);

- (ii) Magnetos;
 - (iii) Fuel and oil pressure; and
 - (iv) Cylinder and oil temperature.
- (c) Each person approving a turbine-engine-powered aircraft for return to service after an annual or 100-hour inspection shall, before that approval, run the aircraft engine or engines to determine satisfactory performance in accordance with the current manufacturer's recommendations.

5.170 PERFORMANCE RULES: AIRWORTHINESS LIMITATIONS

- (a) Each person performing an inspection or other maintenance specified in an airworthiness limitations section of a current manufacturer's maintenance manual, or instructions for continued airworthiness, shall perform the inspection or other maintenance in accordance with that section, or in accordance with specifications approved by the Authority.

SUBPART F: MAINTENANCE RECORDS & ENTRIES

5.200 OWNER MAINTENANCE RECORDS

- (a) The owner of an aircraft, or in the case where it is leased, the lessee, shall keep a maintenance record of the entire aircraft to include—
- (1) Total time in service (hours, calendar time and cycles, as appropriate) of the aircraft and all life limited parts;
 - (2) The current status of compliance with all applicable mandatory continuing airworthiness information, including a chronological list of compliance with Airworthiness Directives and methods of compliance;
 - (3) Appropriate details of modifications and repairs, including when work was performed and the addition or removal of equipment;
 - (4) The time in service (hours, calendar time and cycles, as appropriate) since the last overhaul of the aircraft or its components subject to a mandatory overhaul life, to include—
 - (i) Total time in service;
 - (ii) Date of the last overhaul;
 - (iii) Time in service since the last overhaul; and
 - (iv) Date of the last inspection;
 - (5) The current status of the aircraft's compliance with the maintenance programme, to include the current inspection status of aircraft;
 - (6) The detailed maintenance records to show that all requirements for the signing of a maintenance release have been met; and
 - (7) Current empty mass and the location of the centre of gravity when empty.

5.205 OWNER MAINTENANCE RECORDS RETENTION

- (a) Except for records maintained by an AOC holder, each registered owner or operator shall retain the following records until the work is repeated or superseded by other work of equivalent scope and detail, or for one year after the work is performed—
- (1) Records of the maintenance, preventive maintenance, minor modifications, and records of the 100-hour, annual, and other required or approved inspections, as appropriate, for each aircraft (including the airframe) and each engine, propeller, rotor, and appliance of an aircraft to include—
 - (i) A description (or reference to data acceptable to the Authority) of the work performed;
 - (ii) The date of completion of the work performed; and
 - (iii) The signature and licence number of the person approving the aircraft for return to service.
 - (2) Records containing the following information—
 - (i) The total time-in-service of the airframe, each engine, each propeller, and each rotor;

- (ii) The current status of all life-limited aeronautical products;
 - (iii) The time since last overhaul of all items installed on the aircraft which are required to be overhauled on a specified time basis;
 - (iv) The current inspection status of the aircraft, including the time since the last inspection required by the inspection program under which the aircraft and its appliances are maintained;
 - (v) The current status of applicable Airworthiness Directives including, for each, the method of compliance, the Airworthiness Directive number, and revision date. If the Airworthiness Directive involves recurring action, the time and date when the next action is required; and
 - (vi) Copies of the forms prescribed by this Schedule for each major modification to the airframe and currently installed engines, rotors, propellers, and appliances.
- (b) The records specified in paragraph (a) of this Section shall be retained and transferred with the aircraft at the time the aircraft is sold or leased.
 - (c) The records outlined in Section 5.200 shall be kept for a minimum period of 90 days after the unit to which they refer has been permanently withdrawn from service.
 - (d) A list of defects shall be retained until the defects are repaired and the aircraft is issued a maintenance release.
 - (e) The owner or operator shall make all maintenance records required by this Section available for inspection by the Authority.

5.210 AVAILABILITY OR TRANSFER OF MAINTENANCE RECORDS

- (a) In the event of a temporary change of owner or lessee, the owner or operator of The Bahamas-registered aircraft shall make available or, if acceptable to the Authority, transfer to the new owner or lessee, at the time of sale or lease, the records identified in this Subpart for that aircraft.
- (b) In the event of a permanent change of owner or lessee, the owner or operator of The Bahamas-registered aircraft shall transfer to the purchaser/lessor, at the time of sale or lease, the records identified in this Subpart for that aircraft.
- (c) These records may be made available or transferred in plain language form or in coded form at the election of the purchaser/lessor if the coded form provides for the preservation and retrieval of information in a manner acceptable to the Authority.

5.215 MAINTENANCE RELEASE: GENERAL

- (a) Each person who maintains, performs preventive maintenance, rebuilds, or modifies an aircraft or aeronautical product shall, when the work is performed satisfactorily, make a certifying entry in the maintenance record that the maintenance work performed has been completed satisfactorily and in accordance with data and procedures acceptable to the Authority.
- (b) The minimum contents of this maintenance release shall be—
 - (1) The basic details (or reference to data acceptable to the Authority) of the maintenance performed;
 - (2) The date such maintenance was completed;
 - (3) When applicable, the identity of the approved maintenance organisation; and
 - (4) The identity of the authorised person or persons signing the release (name, signature, licence number, and kind of licence held by the person).

Note: The signature constitutes the approval for maintenance release only for the work performed.

- (c) The certification signature constitutes a maintenance release only for the work performed.
- (d) When the maintenance release is not issued by an approved maintenance organisation in accordance with Schedule 6, the person signing the maintenance release shall be licenced in accordance with Schedule 8.

5.217 ENTRIES: MAJOR REPAIRS OR MODIFICATIONS

- (a) All modifications and repairs shall comply with airworthiness requirements acceptable to the Authority.
- (b) Procedures shall be established to ensure that the substantiating data supporting compliance with the airworthiness requirements are retained.
- (c) The person performing the work shall enter records of major repairs and major modifications, and dispose of that form in the manner prescribed by the Authority.

5.220 ENTRIES: FOLLOWING OVERHAUL & REBUILDING

- (a) No person may describe in any required maintenance entry or form, an aeronautical product as being overhauled unless—
 - (1) It has been disassembled, cleaned, inspected as permitted, repaired as necessary, and reassembled using methods, techniques, and practices acceptable to the Authority; and
 - (2) It has been tested in accordance with approved standards and technical data, or in accordance with current standards and technical data acceptable to the Authority, which have been developed and documented by the holder of the type certificate, supplemental type certificate, or a material, part, process, or appliance manufacturing approval.
- (b) No person may describe in any required maintenance entry or form an aircraft or other aeronautical product as being rebuilt unless it has been—
 - (1) Disassembled;
 - (2) Cleaned;
 - (3) Inspected as permitted;
 - (4) Repaired as necessary;
 - (5) Reassembled, and
 - (6) Tested to the same tolerances and limits as a new item, using either new parts or used parts that conform to new part tolerances and limits.

5.225 ENTRIES FOR MAINTENANCE RELEASE

- (a) No person may execute a maintenance release for any aeronautical product that has undergone maintenance, preventive maintenance, rebuilding, or modification unless—
 - (1) The appropriate maintenance record entry has been made;
 - (2) The repair or modification form authorised by or furnished by the Authority has been executed in a manner prescribed by the Authority; and
 - (3) If a repair or modification results in any change in the aircraft operating limitations or flight data contained in the approved aircraft flight manual, those operating limitations or flight data are appropriately revised and set forth as prescribed.

5.230 MAINTENANCE RECORD ENTRIES: CONTENT & FORM

- (a) The person approving or disapproving the return to service of an aeronautical product after any inspection performed in accordance with this Schedule, shall make an entry in the maintenance record of that equipment containing the following information—
 - (1) Type of inspection and a brief description of the extent of the inspection;
 - (2) Date of the inspection and aircraft total time in service;
 - (3) Signature, the licence number, and kind of licence held by the person approving or disapproving the aeronautical product for return to service;
 - (4) If the aircraft is found to be airworthy and issued a maintenance release, the following or a similarly worded statement— *“I certify that this aircraft has been inspected in accordance with (insert type) inspection and was determined to be in airworthy condition”*;

- (5) If the aircraft is not issued a maintenance release because of needed maintenance, non-compliance with the applicable specifications, airworthiness directives, or other approved data, the following or a similarly worded statement—*I certify that this aircraft has been inspected in accordance with (insert type) inspection and a list of defects and unairworthy items dated (date) has been provided for the aircraft owner or operator*; and
- (6) If an inspection is conducted under an inspection program provided for in this Schedule, the person performing the inspection shall make an entry identifying the inspection program accomplished, and containing a statement that the inspection was performed in accordance with the inspections and procedures for that particular program.

5.232 REQUIRED LISTING OF DEFECTS

- (a) The person performing any inspection required in this Schedule who finds that the aircraft is not airworthy or does not meet the applicable type certificate data sheet, airworthiness directives or other approved data upon which its airworthiness depends, shall give the owner/operator a signed and dated list of those defects.
- (b) The list of defects described in paragraph (a) shall be retained until the defects are repaired and the aircraft is approved for maintenance release.

SUBPART G: MAINTENANCE PERSONNEL LIMITATIONS, PRIVILEGES & RECENCY

5.250 REST & DUTY LIMITATIONS FOR PERSONS PERFORMING MAINTENANCE FUNCTIONS

- (a) No person may assign, nor shall any person perform maintenance functions for aircraft, unless that person has had a minimum rest period of 8 hours prior to the beginning of duty.
- (b) No person may schedule a person performing maintenance functions for aircraft for more than 12 consecutive hours of duty.
- (c) In situations involving unscheduled aircraft unserviceability, persons performing maintenance functions for aircraft may be continued on duty for—
 - (1) Up to 16 consecutive hours; or
 - (2) 20 hours in 24 consecutive hours.
- (d) Following unscheduled duty periods, the person performing maintenance functions for aircraft shall have a mandatory rest period of 10 hours.
- (e) An AMO or AOC holder shall relieve the person performing maintenance functions from all duties for 24 consecutive hours during any 7 consecutive day period.

5.255 AMT PRIVILEGES & LIMITATIONS

- (a) Subject to compliance with the requirements specified in (b) and (c), the privileges of the holder of an aircraft maintenance licence shall be to certify the aircraft or parts of the aircraft as airworthy after an authorised repair, modification or installation of an engine, accessory, instrument, and/or item of equipment, and to sign a maintenance release following inspection, maintenance operations and/or routine servicing.
- (b) The privileges of the holder of an aircraft maintenance licence shall be exercised only:
 - (1) In respect of such—
 - (i) Aircraft as are entered on the licence in their entirety either under broad categories or specifically; or
 - (ii) Airframes and engines and aircraft systems or components as are entered on the licence either under broad categories or specifically; and/or

- (iii) Aircraft avionic systems or components as are entered on the licence either under broad categories or specifically.
 - (2) Provided that the licence holder is familiar with all the relevant information relating to the maintenance and airworthiness of the particular aircraft for which the licence holder is signing a Maintenance Release, or such airframe, engine, aircraft system or component and aircraft avionic system or component which the licence holder is certifying as being airworthy; and
 - (3) On condition that, within the preceding 24 months, the licence holder has either had experience in the inspection, servicing or maintenance of an aircraft or components in accordance with the privileges granted by the licence held for not less than six months, or has met the provision for the issue of a licence with the appropriate privileges, to the satisfaction of the Authority.
- (c) Except as specified in paragraph (f) of this Section, a licenced AMT may perform or supervise the maintenance, preventive maintenance, or modification of, or after inspection, execute a maintenance release for any aircraft, airframe, aircraft engine, propeller, appliance, component, or part thereof, for which he or she is rated, provided the licenced AMT has—
- (1) Satisfactorily performed the work at an earlier date;
 - (2) Demonstrated the ability to perform the work to the satisfaction of the Authority;
 - (3) Received training acceptable to the Authority on the tasks to be performed; or
 - (4) Performed the work while working under the direct supervision of a licenced AMT or a licenced aviation repair specialist (ARS) who is appropriately rated and has—
 - (i) Had previous experience in the specific operation concerned; or
 - (ii) Received training acceptable to the Authority on the task to be performed.
- (d) Except as specified under paragraph (f) of this Section, a licenced AMT with an airframe rating may after the AMT has performed the 100-hour inspection required by this Schedule on an airframe, or any related part or appliance, and approve and return it to service.
- (e) Except as specified under paragraph (f) of this Section, a licenced AMT with a powerplant rating may perform the 100-hour inspection required by this Schedule on a powerplant or propeller or any related part or appliance, and approve and return it to service.
- (f) An AMT with an airframe and/or powerplant rating may not—
- (1) Supervise the maintenance, preventive maintenance, or modification of, or approve and return to service, any aircraft, airframe, aircraft engine, propeller, appliance, component, or part thereof, for which the AMT is rated unless The AMT has satisfactorily performed the work concerned at an earlier date;
 - (2) Perform or supervise (unless under the direct supervision and control of an AOC holder that is authorised to perform maintenance, preventative maintenance, or modifications under an equivalent system in accordance with Schedule 12—
 - (i) A major repair or major modification of a propeller; or
 - (ii) Any repair or modification of instruments.
 - (3) Execute a maintenance release for—
 - (i) Any aircraft, airframe, aircraft engine, propeller, appliance, component, or part thereof after completion of a major modification or major repair; or
 - (ii) Any instrument after completion of any repair or modification.
 - (4) Exercise the privileges of the licence unless the licenced AMT understands the current instructions for continued airworthiness and the maintenance instructions for the specific operation concerned.

5.260 AMT RECENT EXPERIENCE REQUIREMENTS

- (a) A licenced AMT may not exercise the privileges of an AMT licence or rating unless, within the preceding 24 months—
 - (1) The Authority has found that the AMT is able to do that work; or

- (2) For at least 6 months within the preceding 24 months—
 - (i) Served as an AMT under an AMT licence and rating;
 - (ii) Technically supervised other AMTs;
 - (iii) Provided aviation maintenance instruction or served as the direct supervisor of persons providing aviation maintenance instruction for an AMT course or program acceptable to the Authority;
 - (iv) Supervised the maintenance, preventive maintenance, or modification of any aircraft, airframe, aircraft engine, propeller, appliance, component, or part thereof; or
 - (v) Been engaged in any combination of paragraphs (a)(1)(i) through (a)(1)(iv) of this Section.

5.265 INSPECTION AUTHORISATION PRIVILEGES & LIMITATIONS

- (a) Except as specified in paragraphs (b) and (c) of this Section, the holder of an Inspection Authorisation (IA) may—
 - (1) Inspect and execute a maintenance release for any aircraft, airframe, aircraft engine, propeller, appliance, component, or part thereof after completion of a major repair or major modification performed in accordance with this Schedule and done in accordance with technical data approved by the Authority; and
 - (2) Perform an annual inspection, or perform or supervise a progressive inspection, according to this Schedule on any aircraft, except those aircraft on a continuous maintenance program, and approve the aircraft for return to service.
- (b) The holder of an IA, with a current and valid AMT licence, may not inspect and execute a maintenance release for any aircraft over 5,700 kg maximum take-off weight or any airframe, aircraft engine, propeller, appliance, component, or part thereof which is subject to a maintenance program under this Schedule or Schedule 12.
- (c) The holder of an IA, with a current and valid AMT licence, may not inspect and execute a maintenance release for any aircraft maintained in accordance with a continuous maintenance program approved under this Schedule or Schedule 12.
- (d) When exercising the privileges of an IA, the holder shall keep the IA available for inspection by the aircraft owner and the AMT submitting the aircraft, repair, or modification for approval (if any), and shall present the IA at the request of the Authority or an authorised representative of the Director General, or at the request of any law enforcement officer.
- (e) If the holder of an IA changes his or her fixed base of operation, the holder may not exercise the privileges of the authorisation until he or she has notified the Authority in writing of the change.
- (f) No person may exercise any privilege of an IA whenever that person no longer—
 - (1) Has a fixed base of operation;
 - (2) Has the equipment, facilities, or inspection data required by Schedule 6; or
 - (3) Holds a current and valid AMT licence.

5.270 AVIATION REPAIR SPECIALIST LICENCES: PRIVILEGES & LIMITATIONS

- (a) An aviation repair specialist may perform or supervise the maintenance, preventive maintenance, or modification of aircraft, airframes, aircraft engines, propellers, appliances, components, and parts appropriate to the designated speciality area for which the aviation repair specialist is licenced and rated, but only in connection with employment by an AMO approved under Schedule 6 or an AOC holder that is authorised to perform maintenance, preventive maintenance, or modifications under an equivalent system in accordance with Schedule 12.

- (b) An aviation repair specialist may not perform or supervise duties unless the aviation repair specialist understands the current instructions of the employing certificate holder and the instructions for continued airworthiness, which relate to the specific operations concerned.

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APPENDICES

APPENDIX 1 TO 5.005: MAJOR MODIFICATIONS (DEFINITION)

- (a) **Airframe Major Modifications.** Major modifications include modifications to the listed aircraft parts, or the listed types of modifications (when not included in the applicable aircraft specifications)—
- (1) Wings;
 - (2) Tail surfaces;
 - (3) Fuselage;
 - (4) Engine mounts;
 - (5) Control system;
 - (6) Landing gear;
 - (7) Hull or floats;
 - (8) Elements of an airframe including spars, ribs, fittings, shock absorbers, bracing, cowlings, fairings, and balance weights;
 - (9) Hydraulic and electrical actuating systems of components;
 - (10) Rotor blades;
 - (11) Changes to the empty weight or empty balance which result in an increase in the maximum Certified weight or centre of gravity limits of the aircraft;
 - (12) Changes to the basic design of the fuel, oil, cooling, heating, cabin pressurisation, electrical, hydraulic, de-icing, or exhaust systems;
 - (13) Changes to the wing or to fixed or movable control surfaces which affect flutter and vibration characteristics.
- (a) **Powerplant Major Modifications.** Major powerplant modifications, even when not listed in the applicable engine specifications, include—
- (1) Conversion of an aircraft engine from one approved model to another, involving any changes in compression ratio, propeller reduction gear, impeller gear ratios or the substitution of major engine parts which requires extensive rework and testing of the engine;
 - (2) Changes to the engine by replacing aircraft engine structural parts with parts not supplied by the original manufacturer or parts not specifically approved by the Authority;
 - (3) Installation of an accessory which is not approved for the engine;
 - (4) Removal of accessories that are listed as required equipment on the aircraft or engine specification;
 - (5) Installation of structural parts other than the type of parts approved for the installation;
 - (6) Conversions of any sort for the purpose of using fuel of a rating or grade other than that listed in the engine specifications.
- (b) **Propeller Major Modifications.** Major propeller modifications, when not authorised in the applicable propeller specifications, include—
- (1) Changes in blade design;
 - (2) Changes in hub design;
 - (3) Changes in the governor or control design;
 - (4) Installation of a propeller governor or feathering system;
 - (5) Installation of propeller de-icing system;
 - (6) Installation of parts not approved for the propeller.

- (c) **Appliance Major Modifications.** Modifications of the basic design not made in accordance with recommendations of the appliance manufacturer or in accordance with applicable Airworthiness Directive are appliance major modifications. In addition, changes in the basic design of radio communication and navigation equipment approved under type certification or other authorisation that have an effect on frequency stability, noise level, sensitivity, selectivity, distortion, spurious radiation, AVC characteristics, or ability to meet environmental test conditions and other changes that have an effect on the performance of the equipment are also major modifications.

APPENDIX 2 TO 5.005: MAJOR REPAIRS (DEFINITION)

- (a) **Airframe Major Repairs.** Repairs to the following parts of an airframe and repairs of the following types, involving the strengthening, reinforcing, splicing, and manufacturing of primary structural members of their replacement, when replacement is by fabrication such as riveting or welding, are included in the list below—

- (1) Box beams;
- (2) Monocoque or semimonocoque wings or control surfaces;
- (3) Wing stringers or chord members;
- (4) Spars;
- (5) Spar flanges;
- (6) Members of truss-type beams;
- (7) Thin sheet webs of beams;
- (8) Keel and chine members of boat hulls or floats;
- (9) Corrugated sheet compression members which act as flange material of wings or tail surfaces;
- (10) Wing main ribs and compression members;
- (11) Wing or tail surface brace struts;
- (12) Engine mounts;
- (13) Fuselage longerons;
- (14) Members of the side truss, horizontal truss, or bulkheads;
- (15) Main seat support braces and brackets;
- (16) Landing gear brace struts;
- (17) Axles;
- (18) Wheels;
- (19) Parts of the control system such as control columns, pedals, shafts, brackets, or horns;
- (20) Repairs involving the substitution of material;
- (21) The repair of damaged areas in metal or plywood stressed covering exceeding six inches in any direction;
- (22) The repair of portions of skin sheets by making additional seams;
- (23) The splicing of skin sheets;
- (24) The repair of three or more adjacent wing or control surface ribs or the leading edge of wings and control surfaces, between such adjacent ribs;
- (25) Repair of fabric covering involving an area greater than that required to repair two adjacent ribs;
- (26) Replacement of fabric on fabric covered parts such as wings, fuselages, stabilisers, and control surfaces;
- (27) Repairing, including rebottoming, of removable or integral fuel tanks and oil tanks.

- (d) **Powerplant Major Repairs.** Repairs of the following parts of an engine and repairs of the following types, are powerplant major repairs—
- (1) Separation or disassembly of a crankcase or crankshaft of a reciprocating engine equipped with an integral supercharger;
 - (2) Separation or disassembly of a crankcase or crankshaft of a reciprocating engine equipped with other than spur-type propeller reduction gearing;
 - (3) Special repairs to structural engine parts by welding, plating, metalising, or other methods.
- (e) **Propeller Major Repairs.** Repairs of the following types to a propeller are propeller major repairs—
- (1) Any repairs to or straightening of steel blades;
 - (2) Repairing or machining of steel hubs;
 - (3) Shortening of blades;
 - (4) Retipping of wood propellers;
 - (5) Replacement of outer laminations on fixed pitch wood propellers;
 - (6) Repairing elongated bolt holes in the hub of fixed pitch wood propellers;
 - (7) Inlay work on wood blades;
 - (8) Repairs to composition blades;
 - (9) Replacement of tip fabric;
 - (10) Replacement of plastic covering;
 - (11) Repair of propeller governors;
 - (12) Overhaul of controllable pitch propellers;
 - (13) Repairs to deep dents, cuts, scars, nicks, etc., and straightening of aluminium blades;
 - (14) The repair or replacement of internal elements of blades.
- (f) **Appliance Major Repairs.** Repairs of the following types to appliances are appliance major repairs—
- (1) Calibration and repair of instruments;
 - (2) Calibration of avionics or computer equipment;
 - (3) Rewinding the field coil of an electrical accessory;
 - (4) Complete disassembly of complex hydraulic power valves;
 - (5) Overhaul of pressure type carburetors, and pressure type fuel, oil, and hydraulic pumps.

APPENDIX 3 TO 5.005: PREVENTIVE MAINTENANCE (DEFINITION)

- (a) **Preventive Maintenance.** Preventive maintenance is limited to the following work, provided it does not involve complex assembly operations—
- (1) Removal, installation and repair of landing gear tires;
 - (2) Replacing elastic shock absorber cords on landing gear;
 - (3) Servicing landing gear shock struts by adding oil, air, or both;
 - (4) Servicing landing gear wheel bearings, such as cleaning and greasing;
 - (5) Replacing defective safety wiring or cotter keys;
 - (6) Lubrication not requiring disassembly other than removal of non-structural items such as cover plates, cowlings, and fairings;
 - (7) Making simple fabric patches not requiring rib stitching or the removal of structural parts or control surfaces;
 - (8) Replenishing hydraulic fluid in the hydraulic reservoir;

- (9) Refinishing decorative coating of fuselage, wings, tail group surfaces (excluding balanced control surfaces), fairings, cowling, landing gear, cabin, or cockpit interior when removal or disassembly of any primary structure or operating system is not required;
- (10) Applying preservative or protective material to components where no disassembly of any primary structure or operating system is involved and where such coating is not prohibited or is not contrary to good practices;
- (11) Repairing upholstery and decorative furnishings of the cabin or cockpit when the repairing does not require disassembly of any primary structure or operating system or interfere with an operating system or affect primary structure of the aircraft;
- (12) Making small simple repairs to fairings, non-structural cover plates, cowlings, and small patches and reinforcements not changing the contour so as to interfere with proper airflow;
- (13) Replacing side windows where that work does not interfere with the structure of any operating system such as controls, electrical equipment, etc;
- (14) Replacing safety belts;
- (15) Replacing seats or seat parts with replacement parts approved for the aircraft, not involving disassembly of any primary structure or operating system;
- (16) Troubleshooting and repairing broken circuits in landing light wiring circuits;
- (17) Replacing bulbs, reflectors, and lenses of position and landing lights;
- (18) Replacing wheels and skis where no weight and balance computation is involved;
- (19) Replacing any cowling not requiring removal of the propeller or disconnection of flight controls;
- (20) Replacing or cleaning spark plugs and setting of spark plug gap clearance;
- (21) Replacing any hose connection except hydraulic connections;
- (22) Replacing prefabricated fuel lines;
- (23) Cleaning fuel and oil strainers;
- (24) Replacing and servicing batteries;
- (25) Replacement or adjustment of non-structural fasteners incidental to operations;
- (26) The installation of anti-misfueling devices to reduce the diameter of fuel tank filler openings provided the specific device has been made a part of the aircraft type certificate data by the aircraft manufacturer, the manufacturer has provided appropriately approved instructions acceptable to the Authority for the installation of the specific device, and installation does not involve the disassembly of the existing filler opening.

APPENDIX 1 TO 5.105: ALTIMETER SYSTEM TESTS & INSPECTIONS

- (a) The Altimeter system and altitude reporting equipment tests and inspections must be conducted by—
 - (1) The manufacturer of the airplane, or helicopter, on which the tests and inspections are to be performed; or
 - (2) A certificated repair station properly equipped to perform those functions and holding –
 - (i) An instrument rating, Class I;
 - (ii) A limited instrument rating appropriate to the make and model of appliance to be tested;
 - (iii) A limited rating appropriate to the test to be performed;
 - (iv) An airframe rating appropriate to the airplane, or helicopter, to be tested; or
 - (v) A certificated mechanic with an airframe rating (static pressure system tests and inspections only)
- (b) Altimeter and altitude reporting equipment approved under Technical Standard Orders are considered to be tested and inspected as of the date of their manufacture.
- (c) Each person performing the altimeter system tests and inspections required by Schedule 10 shall comply with the following:

I. Static pressure system:

- (1) Ensure freedom from entrapped moisture and restrictions;
- (2) Determine that leakage is within the tolerances established in the aircraft certification rule;
- (3) Determine that the static port heater, if installed, is operative;
- (4) Ensure that no modifications or deformations of the airframe surface have been made that would affect the relationship between air pressure in the static pressure system and true ambient static air pressure for any flight condition.

II. Altimeter:

- (5) Test by an appropriately rated repair facility in accordance with the following subparagraphs. Unless otherwise specified, each test for performance may be conducted with the instrument subjected to vibration. When tests are conducted with the temperature substantially different from ambient temperature of approximately 25 degrees C, allowance shall be made for the variation from the specified condition.
 - (i) **Scale error.** With the barometric pressure scale at 29.92 inches of mercury, the altimeter shall be subjected successively to pressures corresponding to the altitude specified in Table I up to the maximum normally expected operating altitude of the airplane in which the altimeter is to be installed. The reduction in pressure shall be made at a rate not in excess of 20,000 feet per minute to within approximately 2,000 feet of the test point. The test point shall be approached at a rate compatible with the test equipment. The altimeter shall be kept at the pressure corresponding to each test point for at least 1 minute, but not more than 10 minutes, before a reading is taken. The error at all test points must not exceed the tolerances specified in Table I;
 - (ii) **Hysteresis.** The hysteresis test shall begin not more than 15 minutes after the altimeter's initial exposure to the pressure corresponding to the upper limit of the scale error test prescribed in subparagraph (i); and while the altimeter is at this pressure, the hysteresis test shall commence. Pressure shall be increased at a rate simulating a descent in altitude at the rate of 5,000 to 20,000 feet per minute until within 3,000 feet of the first test point (50 percent of maximum altitude). The test point shall then be approached at a rate of approximately 3,000 feet per minute. The altimeter shall be kept at this pressure for at least 5 minutes, but not more than 15 minutes, before the test reading is taken. After the reading has been taken, the pressure shall be increased further, in the same manner as before, until the pressure corresponding to the second test point (40 percent of maximum altitude) is reached. The altimeter shall be kept at this pressure for at least 1 minute, but not more than 10 minutes, before the test reading is taken. After the reading has been taken, the pressure shall be increased further, in the same manner as before, until atmospheric pressure is reached. The reading of the altimeter at either of the two test points shall not differ by more than the tolerance specified in Table II from the reading of the altimeter for the corresponding altitude recorded during the scale error test prescribed in paragraph (b)(i);
 - (iii) **After effect.** Not more than 5 minutes after the completion of the hysteresis test prescribed in paragraph (b)(ii), the reading of the altimeter (corrected for any change in atmospheric pressure) shall not differ from the original atmospheric pressure reading by more than the tolerance specified in Table II;
 - (iv) **Friction.** The altimeter shall be subjected to a steady rate of decrease of pressure approximating 750 feet per minute. At each altitude listed in Table III, the change in reading of the pointers after vibration shall not exceed the corresponding tolerance listed in Table III;

- (v) **Case leak.** The leakage of the altimeter case, when the pressure within it corresponds to an altitude of 18,000 feet, shall not change the altimeter reading by more than the tolerance shown in Table II during an interval of 1 minute;
 - (vi) **Barometric scale error.** At constant atmospheric pressure, the barometric pressure scale shall be set at each of the pressures (falling within its range of adjustment) that are listed in Table IV, and shall cause the pointer to indicate the equivalent altitude difference shown in Table IV with a tolerance of 25 feet.
- (6) Altimeters which are the air data computer type with associated computing systems, or which incorporate air data correction internally, may be tested in a manner and to specifications developed by the manufacturer which are acceptable to the Administrator.

III. Integration Test

The Automatic Pressure Altitude Reporting Equipment and ATC Transponder System Integration test must be conducted by an appropriately rated person under the conditions specified in paragraph (a). Measure the automatic pressure altitude at the output of the installed ATC transponder when interrogated on Mode C at a sufficient number of test points to ensure that the altitude reporting equipment, altimeters, and ATC transponders perform their intended functions as installed in the aircraft. The difference between the automatic reporting output and the altitude displayed at the altimeter shall not exceed 125 feet;

IV. Records:

Records shall comply with the provisions of Schedule 5 as to content, form, and disposition. The person performing the altimeter tests shall record on the altimeter the date and maximum altitude to which the altimeter has been tested and the persons executing a maintenance release form shall enter that data in the airplane log or other permanent record.

TABLE I TO APPENDIX 1 TO 5.105

Altitude	Equivalent pressure (inches of Mercury)	Tolerance ±(feet)
-1,000	31.018	20
029	9.212	0
500	29.385	20
1,000	28.856	20
1,500	28.335	25
2,000	27.821	30
3,000	26.817	30
4,000	25.842	35
6,000	23.978	40
8,000	22.225	60
10,000	20.577	80
12,000	19.029	90
14,000	17.577	100
16,000	16.216	110
18,000	14.942	120
20,000	13.750	130
22,000	12.636	140
25,000	11.104	155
30,000	8.885	180
35,000	7.041	205

40,0005.538230
45,0004.355255
50,0003.425280

TABLE II TO APPENDIX 1 TO 5.105: TEST TOLERANCES

TestTolerance (feet)
Case Leak Test±100
Hysteresis Test
First Test Point (50 percent of maximum altitude)75
Second Test Point (40 percent of maximum altitude)75
After Effect Test30

TABLE III TO APPENDIX 1 TO 5.105: FRICTION

Altitude (feet)	Tolerance (feet)
1,000	±70
2,000	70
3,000	70
5,000	70
10,000	80
15,000	90
20,000	100
25,000	120
30,000	140
35,000	160
40,000	180
50,000	250

TABLE IV TO APPENDIX 1 TO 5.105: PRESSURE/ALTITUDE DIFFERENCE

Pressure (inches of Hg)	Altitude difference (feet)
28.10	-1,727
28.50	-1,340
29.00	-863
29.50	-392
29.920	
30.50	+531
30.90	+893
30.99	+974

APPENDIX 2 TO 5.105: TRANSPONDER TESTS AND INSPECTIONS

- (a) Following any installation or maintenance on an ATC transponder where data correspondence error could be introduced, the integrated system has been tested, inspected, and found to comply with paragraph (c), of Appendix 1 to 5.105.
- (b) The tests and inspections specified in this Section must be conducted by -
 - (1) An Approved Maintenance Organisation properly equipped to perform those functions and holding-
 - (i) A radio rating, Class III;

- (ii) A limited radio rating appropriate to the make and model transponder to be tested;
- (iii) A limited rating appropriate to the test to be performed, or
- (2) A holder of a continuous airworthiness maintenance program as provided in Schedule 12, or
- (3) The manufacturer of the aircraft on which the transponder to be tested is installed, if the transponder was installed by that manufacturer.

The ATC transponder tests may be conducted using a bench check or portable test equipment and must meet the requirements prescribed in paragraphs (a) through (j) of this appendix. If portable test equipment with appropriate coupling to the aircraft antenna system is used, operate the test equipment for ATCRBS transponders at a nominal rate of 235 interrogations per second to avoid possible ATCRBS interference. Operate the test equipment at a nominal rate of 50 Mode S interrogations per second for Mode S. An additional 3 dB loss is allowed to compensate for antenna coupling errors during receiver sensitivity measurements conducted in accordance with paragraph (c)(1) when using portable test equipment.

(a) *Radio Reply Frequency:*

- (1) For all classes of ATCRBS transponders, interrogate the transponder and verify that the reply frequency is 1090 \pm 3 Megahertz (MHz);
- (2) For classes 1B, 2B, and 3B Mode S transponders, interrogate the transponder and verify that the reply frequency is 1090 \pm 3 MHz;
- (3) For classes 1B, 2B, and 3B Mode S transponders that incorporate the optional 1090 \pm 1 MHz reply frequency, interrogate the transponder and verify that the reply frequency is correct;
- (4) For classes 1A, 2A, 3A, and 4 Mode S transponders, interrogate the transponder and verify that the reply frequency is 1090 \pm 1 MHz.

(b) *Suppression:* When Classes 1B and 2B ATCRBS Transponders, or Classes 1B, 2B, and 3B Mode S transponders are interrogated Mode 3/A at an interrogation rate between 230 and 1,000 interrogations per second; or when Classes 1A and 2A ATCRBS Transponders, or Classes 1B, 2A, 3A, and 4 Mode S transponders are interrogated at a rate between 230 and 1,200 Mode 3/A interrogations per second:

- (1) Verify that the transponder does not respond to more than 1 percent of ATCRBS interrogations when the amplitude of P2 pulse is equal to the P1 pulse;
- (2) Verify that the transponder replies to at least 90 percent of ATCRBS interrogations when the amplitude of the P2 pulse is 9 dB less than the P1 pulse. If the test is conducted with a radiated test signal, the interrogation rate shall be 235 \pm 5 interrogations per second unless a higher rate has been approved for the test equipment used at that location.

(c) *Receiver Sensitivity:*

- (1) Verify that for any class of ATCRBS Transponder, the receiver minimum triggering level (MTL) of the system is -73 \pm 4 dbm, or that for any class of Mode S transponder the receiver MTL for Mode S format (P6 type) interrogations is -74 \pm 3 dbm by use of a test set either—
 - (i) Connected to the antenna end of the transmission line;
 - (ii) Connected to the antenna terminal of the transponder with a correction for transmission line loss; or
 - (iii) Utilized radiated signal.
- (2) Verify that the difference in Mode 3/A and Mode C receiver sensitivity does not exceed 1 db for any class of ATCRBS transponder or any class of Mode S transponder.

(d) *Radio Frequency (RF) Peak Output Power:*

- (1) Verify that the transponder RF output power is within specifications for the class of transponder. Use the same conditions as described in (c)(1) (i), (ii), and (iii) above—
 - (i) For Class 1A and 2A ATCRBS transponders, verify that the minimum RF peak output power is at least 21.0 dbw (125 watts);
 - (ii) For Class 1B and 2B ATCRBS Transponders, verify that the minimum RF peak output power is at least 18.5 dbw (70 watts);
 - (iii) For Class 1A, 2A, 3A, and 4 and those Class 1B, 2B, and 3B Mode S transponders that include the optional high RF peak output power, verify that the minimum RF peak output power is at least 21.0 dbw (125 watts);
 - (iv) For Classes 1B, 2B, and 3B Mode S transponders, verify that the minimum RF peak output power is at least 18.5 dbw (70 watts);
 - (v) For any class of ATCRBS or any class of Mode S transponders, verify that the maximum RF peak output power does not exceed 27.0 dbw (500 watts).

Note: The tests in (e) through (j) apply only to Mode S transponders.

- (e) Mode S Diversity Transmission Channel Isolation: For any class of Mode S transponder that incorporates diversity operation, verify that the RF peak output power transmitted from the selected antenna exceeds the power transmitted from the nonselected antenna by at least 20 db.
- (f) Mode S Address: Interrogate the Mode S transponder and verify that it replies only to its assigned address. Use the correct address and at least two incorrect addresses. The interrogations should be made at a nominal rate of 50 interrogations per second.
- (g) Mode S Formats: Interrogate the Mode S transponder with uplink formats (UF) for which it is equipped and verify that the replies are made in the correct format. Use the surveillance formats UF = 4 and 5. Verify that the altitude reported in the replies to UF = 4 are the same as that reported in a valid ATCRBS Mode C reply. Verify that the identity reported in the replies to UF = 5 are the same as that reported in a valid ATCRBS Mode 3/A reply. If the transponder is so equipped, use the communication formats UF = 20, 21, and 24.
- (h) Mode S All-Call Interrogations: Interrogate the Mode S transponder with the Mode S only all-call format UF = 11, and the ATCRBS/Mode S all-call formats (1.6 microsecond P4 pulse) and verify that the correct address and capability are reported in the replies (downlink format DF = 11).
 - (i) ATCRBS Only All-Call Interrogation: Interrogate the Mode S transponder with the ATCRBS only all-call interrogation (0.8 microsecond P4 pulse) and verify that no reply is generated.
 - (ii) Squitter: Verify that the Mode S transponder generates a correct squitter approximately once per second.
 - (iii) Records: Comply with the provisions of Schedule 5 as to content, form, and disposition of the records.

APPENDIX 3 TO 5.105: VOR RECEIVER TESTS & INSPECTIONS

- (a) Each VOR system of radio navigation used in IFR operations must be—
 - (1) Maintained, checked, and inspected under an approved procedure; or
 - (2) Operationally checked within the preceding 30 days, and found to be within the limits of the permissible indicated range of bearing error set forth in paragraph (b) or (c) of this Section.

- (i) Except as provided in paragraph (c) of this Section, each person conducting a VOR check under paragraph (a)(2) of this Section shall—
 - (1) Use, at the airport of intended departure, an approved test signal or a test signal radiated by a certificated and appropriately rated radio approved maintenance organisation or, outside The Bahamas a test signal operated or approved by an appropriate authority to check the VOR equipment (the maximum permissible indicated bearing error is $\pm 4^\circ$); or
 - (2) Use, at the airport of intended departure, a point on the airport surface designated as a VOR system checkpoint by the Authority, or, outside The Bahamas, by an appropriate authority (the maximum permissible bearing error is $\pm 4^\circ$);
 - (3) If neither a test signal nor a designated checkpoint on the surface is available, use an airborne checkpoint designated by the Authority or, outside The Bahamas, by an appropriate authority (the maximum permissible bearing error is $\pm 6^\circ$); or
 - (4) If no check signal or point is available, while in flight—
 - (i) Select a VOR radial that lies along the centerline of an established VOR airway;
 - (ii) Select a prominent ground point along the selected radial preferably more than 20 nautical miles from the VOR ground facility and maneuver the aircraft directly over the point at a reasonably low altitude; and
 - (iii) Note the VOR bearing indicated by the receiver when over the ground point (the maximum permissible variation between the published radial and the indicated bearing is 6°).
- (j) If dual system VOR (units independent of each other except for the antenna) is installed in the aircraft, the person checking the equipment may check one system against the other in place of the check procedures specified in paragraph (b) of this Section. Both systems shall be tuned to the same VOR ground facility and note the indicated bearings to that station. The maximum permissible variation between the two indicated bearings is 4° .
- (k) Each person making the VOR operational check, as specified in paragraph (b) or (c) of this Section, shall enter the date, place, bearing error, and sign the aircraft log or other record. In addition, if a test signal radiated by an approved maintenance organisation, as specified in paragraph (b)(1) of this Section, is used, an entry must be made in the aircraft log or other record by the organisation's representative certifying to the bearing transmitted by the approved maintenance organisation for the check and the date of transmission.

APPENDIX 1 TO 5.167: PERFORMANCE RULES: 100-HOUR INSPECTIONS

- (a) Each person performing an annual or 100-hour inspection shall, before that inspection, thoroughly clean the aircraft and aircraft engine and remove or open all necessary inspection plates, access doors, fairings, and cowlings.
- (l) Each person performing an annual or 100-hour inspection shall inspect, where applicable, the following components—
 - (1) Fuselage and hull group—
 - (i) Fabric and skin - for deterioration, distortion, other evidence of failure, and defective or insecure attachment of fittings;
 - (ii) Systems and components - for improper installation, apparent defects, and unsatisfactory operation;
 - (iii) The cabin and cockpit group;

- (iv) Generally - for uncleanness and loose equipment that might foul the controls;
 - (v) Seats and safety belts - for poor condition and apparent defects;
 - (vi) Windows and windshields - for deterioration and breakage;
 - (vii) Instruments - for poor condition, mounting, marking, and (where practicable) for improper operation.
 - (viii) Flight and engine controls - for improper installation and improper operation;
 - (ix) Batteries - for improper installation and improper charge;
 - (x) All systems - for improper installation, poor general condition, apparent and obvious defects, and insecurity of attachment.
- (2) Engine and nacelle group—
- (i) Engine section - for visual evidence of excessive oil, fuel, or hydraulic leaks, and sources of such leaks;
 - (ii) Studs and nuts - for improper torquing and obvious defects;
 - (iii) Internal engine - for cylinder compression and for metal particles or foreign matter on screens and sump drain plugs. If there is weak cylinder compression, for improper internal condition and improper internal tolerances;
 - (iv) Engine mount - for cracks, looseness of mounting, and looseness of engine to mount;
 - (v) Flexible vibration dampeners - for poor condition and deterioration;
 - (vi) Engine controls - for defects, improper travel, and improper safetying;
 - (vii) Lines, hoses, and clamps - for leaks, improper condition, and looseness;
 - (viii) Exhaust stacks - for cracks, defects, and improper attachment;
 - (ix) Accessories - for apparent defects in security of mounting;
 - (x) All systems - for improper installation, poor general condition, defects, and insecure attachment;
 - (xi) Cowling - for cracks and defects.
- (3) Landing gear group—
- (i) All units - for poor condition and insecurity of attachment;
 - (ii) Shock absorbing devices - for improper oleo fluid level;
 - (iii) Linkage, trusses, and members - for undue or excessive wear, fatigue, and distortion;
 - (iv) Retracting and locking mechanism - for improper operation;
 - (v) Hydraulic lines - for leakage;
 - (vi) Electrical system - for chafing and improper operation of switches;
 - (vii) Wheels - for cracks, defects, and condition of bearings;
 - (viii) Tires - for wear and cuts;
 - (ix) Brakes - for improper adjustment;
 - (x) Floats and skis - for insecure attachment and obvious or apparent defects.
- (4) Wing and centre section assembly
for—
- (i) Poor general condition;
 - (ii) Fabric or skin deterioration;
 - (iii) Distortion;
 - (iv) Evidence of failure; and
 - (v) Insecurity of attachment.
- (5) Complete empennage assembly for—

- (i) Poor general condition;
 - (ii) Fabric or skin deterioration;
 - (iii) Distortion;
 - (iv) Evidence of failure;
 - (v) Insecure attachment;
 - (vi) Improper component installation; and
 - (vii) Improper component operation.
- (6) Propeller group—
- (i) Propeller assembly - for cracks, nicks, binds, and oil leakage;
 - (ii) Bolts - for improper torquing and lack of safety;
 - (iii) Anti-icing devices - for improper operations and obvious defects; and
 - (iv) Control mechanisms - for improper operation, insecure mounting, and restricted travel.
- (7) Avionics/instrument group—
- (i) Avionics/instruments equipment - for improper installation and insecure mounting;
 - (ii) Wiring and conduits - for improper routing, insecure mounting, and obvious defects;
 - (iii) Bonding and shielding - for improper installation and poor condition;
 - (iv) Antenna including trailing antenna - for poor condition, insecure mounting, and improper operation.
- (8) Electronic/electrical group—
- (i) Wiring and conduits - for improper routing, insecure mounting, and obvious defects;
 - (ii) Bonding and shielding - for improper installation and poor condition.
- (9) Each installed miscellaneous item that is not otherwise covered by this listing and/or has instructions for continued airworthiness - for improper installation and improper operation.

End of Schedule 5

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