Regeling van de Minister van Toerisme, Economische Zaken, Verkeer en Telecommunicatie van 15 juli 2014, tot wijziging van de Regeling luchtwaardigheid van luchtvaartuigen ter vervanging van de bijlagen

De Minister van Toerisme, Economische Zaken, Verkeer en Telecommunicatie,

In overweging genomen hebbende:

dat het wenselijk is de Regeling luchtwaardigheid van luchtvaartuigen aan te passen aan de nieuwe ontwikkelingen binnen de luchtvaart met betrekking tot de luchtwaardigheid van luchtvaartuigen;

BESLUIT:

Artikel I

De Regeling luchtwaardigheid van luchtvaartuigen wordt gewijzigd als volgt:

A

Iedere volzin van artikel 2 wordt voorzien van een lidnummer.

B

1. De bijlage A behorende bij de Regeling luchtwaardigheid van luchtvaartuigen wordt verletterd tot bijlage E.

2. Er wordt een bijlage A (nieuw) ingevoegd, zoals opgenomen in bijlage A bij deze regeling.

3. In bijlage E (nieuw) vervallen alle onderdelen, met uitzondering van de onderdelen b tot en met f van onderdeel 5.4.1.8

APPLICATION/RENEWAL OF STANDARD CERTIFICATES OF AIRWORTHINESS.

C

De bijlagen B, C en D worden vervangen door de bij deze regeling behorende bijlagen B, C en D.
Artikel II

1. Deze regeling treedt, zodra deze in het Afkondigingsblad is geplaatst, in werking met ingang van de eerste dag van de zevende week na de datum van bekrachtiging.

2. In afwijking van het eerste lid, treedt deze regeling:
   a. in werking met ingang van de eerste dag van de derde week na de beslissing van het Constitutioneel Hof indien de Ombudsman een zaak aanhangig heeft gemaakt als bedoeld in artikel 127, derde lid, van de Staatsregeling; of,
   b. niet in werking indien het Constitutioneel Hof oordeelt dat deze regeling niet verenigbaar is met de Staatsregeling.

Deze regeling wordt met de toelichting in het Afkondigingsblad geplaatst.

Vijftiende juli 2014
De Minister van Toerisme, Economische Zaken,
Verkeer en Telecommunicatie

Uitgegeven de dertiende juli 2014;
De minister van Algemene Zaken
Namens deze,
Hoofd afdeling Juridische Zaken & Wetgeving
TOELICHTING

Algemeen deel

Enkele jaren geleden heeft de Internationale burgerluchtvaart organisatie (ICAO) een audit uitgevoerd naar de toepassing van de internationale luchtvaart regelgeving in het Koninkrijk der Nederlanden. Een belangrijke uitkomst van deze audit was dat de regelgeving van de Nederlandse Antillen sterk verouderd was. Daardoor kwam de aansluiting bij de internationale regelgeving onder druk te staan. De burgerluchtvaartwetgeving is overal ter wereld zoveel mogelijk uniform vanwege het sterke internationale karakter van de burgerluchtvaart.

De regering is dan ook van plan om het gehele deel van de luchtvaartregelgeving in Sint Maarten aan te passen aan de internationale standaarden, beginnende met de regelgeving op het gebied van veiligheid van de burgerluchtvaart. Recent aanleiding is tevens geweest dat de Amerikaanse luchtvaartautoriteit, de "Federal Aviation Administration" (FAA), van 12 tot en met 16 september 2011 in het kader van het "International Aviation Safety Assessment" (IASA) programma een audit bij de "Curacao Civil Aviation Authority" (CCAA) heeft uitgevoerd, waar de Sint Maarten Civil Aviation Authority (SMCAA) bij betrokken was. De uitslag van deze audit was onder meer dat de regelgeving, de "Civil Aviation Regulations", voorheen "Civil Aviation Regulations Netherlands Antilles" (CARN) niet actueel was. De audit betrof vooral de regelgeving omtrent de veiligheid van de luchtvaart.

Bij het opstellen van de nieuwe bijlage van de Regeling luchtvaardigheid van luchtvaartuigen is deel 5 (Airworthiness) van de "FAA Model Regulations" als richtlijn gebruikt. Dit deel is gebaseerd op de maatstaven en aanbevolen werkwijzen van Annex 8 (Airworthiness) van het Verdrag inzake de Internationale burgerluchtvaart (Stbl. 1947, H 165). Deel 5 "Airworthiness" van de "FAA Model Regulations" is aangepast aan de actueel geldende wetgeving in Sint Maarten en is getiteld "Sint Maarten Civil Aviation Regulations Part 5 Airworthiness". De "Sint Maarten Civil Aviation Regulations Part 5 Airworthiness" is als bijlage A bij deze regeling gevoegd. Deze bijlage A vervangt de huidige bijlage A. De bepalingen in huidige bijlage A komen grotendeels te vervallen, het restant wordt verletterd tot bijlage E.

De bijlagen zijn opgesteld in de Engelse taal, dat is normaal gesproken niet wenselijk bij wetgeving. Echter, dat is gewoon in de luchtvaart gezien het internationale karakter daarvan.

Financiële paragraaf

Er zijn geen financiële gevolgen voorzien.

Artikelsgewijs deel

Artikel I, onderdeel A
Van de gelegenheid is gebruik gemaakt om de tekst van de vier verschillende onderdelen van artikel 2 te voorzien van een nummer zodat het artikel in leden wordt opgedeeld. In de aanhef van de verschillende bijlagen bij de
onderhavige regeling wordt de verwijzing zodoende duidelijker. Het artikel zelf verwees overigens reeds naar leden.

Artikel I, onderdeel B
De bijlage A bij de Regeling luchtwaardigheid van luchtvaartuigen is aangepast aan de nieuwe ontwikkelingen binnen de luchtvaart met betrekking tot de luchtwaardigheid van luchtvaartuigen. Deze bijlage bevat de veiligheidsregels omtrent de luchtwaardigheid van luchtvaartuigen; deze zijn aangepast aan de hand van bijlage B van het Verdrag inzake de Internationale burgerluchtvaart.
Bijlage E bevat het restant van de grotendeels vervallen onderdelen uit de eerdere bijlage A. Bijlage E bevat nu alleen de bepalingen die niet zijn vervallen.

Artikel I, onderdeel C
De bijlagen B, C en D bepalen de modellen voor het certificaat van luchtwaardigheid en de aanvraag formulieren voor het verkrijgen en vernieuwen van een certificaat van luchtwaardigheid van luchtvaartuigen. Deze modellen zijn aangepast aan de nieuwe voorschriften in bijlage A.

De Minister van Toerisme, Economische Zaken, Verkeer en Telecommunicatie
Bijlage A behorende bij de Regeling luchtwaardigheid van luchtvaartuigen

SINT MAARTEN CIVIL AVIATION REGULATIONS

PART 5- AIRWORTHINESS
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5.1 GENERAL

Note: ICAO cross references to Annex 8 are to the Tenth Edition.

5.1.1.1 Applicability

(a) This regulation prescribes the requirements for:

(1) Original certification of aircraft and aeronautical products
(2) Supplemental type certificates;
(3) Issuance of a Certificate of Airworthiness;
(4) Continued airworthiness of aircraft and aeronautical components;
(5) Aircraft maintenance and inspection requirements; and
(6) Maintenance records and entries

5.1.1.2 Definitions

For the purpose of SMCAR Part 5, the following definitions shall apply—

(1) Aeronautical product. Any aircraft, aircraft engine, propeller, or subassembly, appliance, material, part or component to be installed thereon.
(2) Airworthiness approval tag (SMCAA form). A tag (Model SMCAA Form AAT) that may be attached to a part. The tag must include the part number, serial number, and current life status of the part. Each time the part is removed from a type certificated product, a new tag must be created or the existing tag must be updated with the current life status. The Model SMCAA Form AAT has two distinct purposes – (1) is as a certification of release to service of a part, component or assembly after maintenance, preventive maintenance, overhaul or rebuilding, and (2) the other is as shipping of a newly manufactured red part.
(3) Airworthiness directive. Continuing airworthiness information that applies to the following products: aircraft, aircraft engines, propellers, and appliances. An airworthiness directive is mandatory if issued by the State of Design. [ICAO Annex 8: Part II: 4.2.1.1(a)]
(4) Appropriate airworthiness requirements. The comprehensive and detailed airworthiness codes established, adopted or accepted by a Contracting State for the class of aircraft, engine or propeller under consideration.
(5) Authority. The Sint Maarten Civil Aviation Authority (SMCAA).
(6) Continuing airworthiness. The set of processes by which an aircraft, engine, propeller or part complies with the applicable airworthiness requirements and remains in a condition for safe operation throughout its operating life.
(7) Life-limited part. Any part for which a mandatory replacement limit is specified in the type design, the Instructions for Continued Airworthiness, or the maintenance manual.
(8) Maintenance. The performance of tasks required to ensure the continuing airworthiness of an aircraft, including any one or combination of overhaul, inspection, replacement, defect rectification, and the embodiment of a modification or repair.
(9) Major modification. In respect of an aeronautical product for which a Type certificate has been issued, a change in the Type Design that has an appreciable effect, or other than a negligible effect, on the mass and balance limits, structural strength, powerplant operation, flight characteristics, reliability, operational characteristics, or other characteristics or qualities affecting the airworthiness or environmental characteristics of an aeronautical product. IS: 5.1.1.2(a) (9).
(10) Major repair. Major repair means a repair: (1) that if improperly done might appreciably affect weight, balance, structural strength, performance, power plant, operations, flight characteristics, or other qualities affecting airworthiness; or (2) that is not done according to accepted practices or cannot be done by elementary operations. Described in IS: 5.1.1.2(a) (10).
(11) Minor modification. A modification other than a major modification.
(12) Modification The modification of an aircraft/aeronautical product in conformity with an approved standard.
(13) Overhaul. The restoration of an aircraft/aeronautical product using methods, techniques, and practices acceptable to the Authority, including disassembly, cleaning, and inspection as permitted, repair as necessary, and reassembly; and 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 State of Design, holder of the type certificate, supplemental type certificate, or a material, part, process, or appliance approval under a Technical Standard Order (TSO).
(14) **Preventive maintenance.** Simple or minor preservation operations and the replacement of small standard parts not involving complex assembly operations. Described in IS: 5.1.1.2(a) (14).

(15) **Rebuild.** The restoration of an aircraft/aeronautical product by using methods, techniques, and practices acceptable to the Authority, when it has been disassembled, cleaned, inspected as permitted, repaired as necessary, reassembled, and 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.

(16) **Repair.** (1) The restoration of an aeronautical product to an airworthy condition as defined by the appropriate airworthiness requirements. (ICAO Annex 6 definition); (2) The restoration of an aeronautical product to an airworthy condition to ensure that the aircraft continues to comply with the design aspects of the appropriate airworthiness requirements used for the issuance of the type certificate for the respective aircraft type, after it has been damaged or subjected to wear. (ICAO Annex 6 definition).

(17) **Required inspection items.** Maintenance items and/or that must be inspected by a qualified and authorized person other than the one performing the work, and include at least those that could result in a failure, malfunction, or defect endangering the safe operation of the aircraft, if not properly performed or if improper parts or materials are used.

(18) **State of Design.** The State having jurisdiction over the organization responsible for the type design.

(19) **State of Manufacture.** The State having jurisdiction over the organization responsible for the final assembly of the aircraft.

(20) **State of Registry.** The State on whose register the aircraft is entered.

(21) **Type Certificate.** A document issued by a Contracting State to define the design of an aircraft type and to certify that this design meets the appropriate airworthiness requirements of that State.

(22) **Validation of a Certificate of Airworthiness.** The action taken by a Contracting State, as an alternative to issuing its own Certificate of Airworthiness, in accepting a Certificate of Airworthiness issued by any other Contracting State as the equivalent of its own Certificate of Airworthiness.

### 5.1.1.3 Abbreviations:

(a) The following acronyms are used in this regulation:

1. **AOC** – Air Operator Certificate
2. **AMO** – Approved Maintenance Organization
3. **AMT** – Aviation Maintenance Technician
4. **IA** – Inspection Authorization
5. **MEL** – Minimum Equipment List
6. **PIC** – Pilot in command
7. **STC** – Supplemental type Certificate
8. **TSO** – Technical Standard Order

### 5.1.1.4 Original Certification of Aircraft and Aeronautical Products

*Note: This Part presumes that Sint Maarten does not presently have the capabilities or demand to issue its own original type certification and will therefore not be the State of Design or State of Manufacture. Therefore Sint Maarten will either issue its own Certificate of Airworthiness or validate the Certificate of Airworthiness issued by another State in accordance with this part. In either case, Sint Maarten is responsible for the continuing airworthiness of aircraft on its registry and for ensuring that non Sint Maarten registered aircraft operated within Sint Maarten are maintained in accordance with continuing airworthiness requirements of the State of Registry.*

### 5.1.1.5 Applicability

(a) This Subpart describes the procedures and designation of applicable rules for original certification of aircraft and related aeronautical product.

(b) This Subpart is reserved.
5.2 SUPPLEMENTAL TYPE CERTIFICATES

5.2.1.1 Applicability
This Subpart prescribes procedural requirements for the issue of supplemental type certificates.

5.2.1.2 Issuance of a Supplemental Type Certificate
(a) Any person who proposes to Modification a product by introducing a major change in type design, not great enough to require a new application for a type certificate, shall apply for a Supplemental Type Certificate to the regulatory agency of the State of Design that approved the type certificate for that product, or to the State of Registry of the aircraft provided that the State of Registry has the technical expertise to evaluate the proposed change in accordance with the type design. The applicant shall apply in accordance with the procedures prescribed by that State.

(b) Sint Maarten, upon receiving a request for a supplemental type certificate for an aircraft registered in Sint Maarten shall forward the request to the State of Design.

Note: Technical expertise needed by the Authority in order to approve an STC includes aeronautical engineers with specific expertise in the field to be approved.

Note: If the State of Registry is not the State of Design, the State of Registry may elect to forward a request for a supplemental type certificate to the State of Design.

5.3 ISSUANCE OF CERTIFICATES OF AIRWORTHINESS

5.3.1.1 Applicability
(a) This Subpart prescribes procedures required for the issue of airworthiness certificates and other certifications for aeronautical products registered in Sint Maarten.

(b) Sint Maarten shall issue a certificate of airworthiness for aircraft registered in Sint Maarten based on satisfactory evidence that the aircraft complies with the design aspects of the appropriate airworthiness requirements (type certificate).

5.3.1.2 Eligibility
(a) Any registered owner of an aircraft registered in Sint Maarten, or agent of the owner, may apply for an airworthiness certificate for that aircraft.

(b) Each applicant for an airworthiness certificate shall apply in a form and manner acceptable to the Authority.

5.3.1.3 Aircraft Identification
(a) Each applicant for a certificate of airworthiness shall show that the aircraft has the proper identification plates.

5.3.1.4 Classifications of Airworthiness Certificates
(a) A standard Certificate of Airworthiness will be issued for aircraft in the specific category and model designated by the State of Design in the type certificate. The types of standard certificates of airworthiness include

1. Normal;
2. Utility;
3. Acrobatic;
4. Transport;
5. Commuter;
6. Other.

(b) A Special Airworthiness Certificate will be issued for aircraft that do not meet the requirements of the State of Design for a standard airworthiness certificate. The types of special airworthiness certificates include

1. Primary;
2. Restricted;
3. Limited;
4. Provisional
5. Experimental
6. Special flight permits;
7. Other.
5.3.1.5 Issuance or Validation of a Standard Airworthiness Certificate

(a) The Authority will issue a standard certificate of airworthiness if—

(1) 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;

(2) The aircraft has been inspected in accordance with the performance rules of section 5.6 of this regulation for inspections and found airworthy by persons authorized by the Authority to make such determinations within the last 30 calendar days; and

(3) 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 a certificate of airworthiness issued by another Contracting State upon registration of the aircraft in Sint Maarten for the period specified in that validation certificate. The validation certificate shall be carried with the Certificate of Airworthiness and, together, shall be considered as the equivalent of a Certificate of Airworthiness issued by Sint Maarten. The validity of the validation certificate shall not extend beyond the period of validity of the Certificate of Airworthiness or one year, whichever is less.

(c) The Standard Airworthiness Certificate shall contain the information in Annex D at the Decree on airworthiness of the Minister of Tourism, Economic Affairs, Transport and Telecommunication.

(d) The Standard Airworthiness Certificate or validation certificate shall be issued in the language of Sint Maarten and shall include an English translation.

5.3.1.6 Issuance of Special Airworthiness Certificates

(a) The Authority may issue a Special Airworthiness Certificate to the aircraft that does not qualify for a Standard Certificate of Airworthiness.

(b) Aircraft holding Special Airworthiness Certificates shall be subject to operating limitations within Sint Maarten and may not make international flights. The Authority shall issue specific operating limitations for each Special Airworthiness Certificate.

5.3.1.7 Issuance of Special Flight Permits

(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; and

(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.
Part 5–Airworthiness

(b) The Authority may issue a special flight permit with continuing authorization issued to an aircraft that may not meet applicable airworthiness requirements but are capable of safe flight, for the purpose of flying aircraft to a base where maintenance or modifications are to be performed. The permit issued under this paragraph is an authorization, including conditions and limitations for flight, which is set forth in the AOC Holder's specific operating provisions. This permit under this paragraph may be issued to an AOC Holder certified under SMCAR Part 9.

(c) In the case of Special Flight Permits, the Authority shall require a properly executed maintenance endorsement in the aircraft permanent record by a person or organization, authorized in accordance to SMCAR Part 5, 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 authorizations from countries to be overflown on flights outside Sint Maarten

5.3.1.8 Duration of Certificates of Airworthiness

a. A certificate of airworthiness or special airworthiness certificate is effective as follows unless sooner surrendered, suspended or revoked, or a special termination date is otherwise established by the Authority—

1. A Certificate of Airworthiness shall be renewed or shall remain in effect, subject to the laws of Sint Maarten,

2. The validity of a validation certificate issued by Sint Maarten shall not extend beyond the period of validity of the Certificate of Airworthiness issued by the State of Registry, or one year, whichever is less.

3. A special airworthiness certificate, such as a special flight permit, is valid for the period of time specified in the permit.

b. The continuing airworthiness of the aircraft shall be determined by a periodical inspection at appropriate intervals having regard to lapse of time and type of service.

c. Failure to maintain an aircraft in an airworthy condition as defined by the appropriate airworthiness requirements of the State of Registry, shall render the aircraft ineligible for operations until the aircraft is restored to an airworthy condition.

5.3.1.9 Cooperation Among States for Continuing Airworthiness Information, Including Airworthiness Directives

(a) Upon registration of an aircraft in Sint Maarten, the Authority will notify the State of Design of the aircraft of the registration in Sint Maarten, and request that the Authority receives any and all airworthiness directives addressing that aircraft, airframe, aircraft engine, propeller, appliance, or component part and any requirements for the establishment of specific continuing airworthiness programs.

(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 Sint Maarten 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 Sint Maarten.

(d) No person may operate any Sint Maarten registered civil aircraft to which the measures of this subsection apply, except in accordance with the applicable airworthiness directives and service bulletins.
5.3.1.10 Amendment of Airworthiness Certificate

(a) The Authority may amend or modify a Certificate of Airworthiness or a special airworthiness certificate:
   (1) Upon application from an operator.
   (2) On his own initiative.
(b) Amendment may be made under the following conditions:
   (1) Modification; (STC or amended TC)
   (2) A change to the Authority and basis for issue;
   (3) A change in the aircraft model
   (4) A change in the operating limitations for an aircraft with a special airworthiness certificate.

5.3.1.11 Transfer or Surrender of a Certificate of Airworthiness

(a) An owner shall transfer a Certificate of Airworthiness:
   (1) To the lessee upon lease of an aircraft within or outside Sint Maarten,
   (2) To the buyer upon sale of the aircraft within Sint Maarten,
(b) An owner shall surrender the Certificate of Airworthiness for the aircraft to the Minister upon sale of that aircraft outside of Sint Maarten,

5.3.1.12 Commercial Air Transport

(a) The Authority will consider an airworthiness certificate valid for commercial air transport only when accompanied by operations specifications issued by the Authority which identifies the specific types of commercial air transport authorized.

5.4 CONTINUED AIRWORTHINESS OF AIRCRAFT AND COMPONENTS

5.4.1.1 Applicability

(a) This Subpart prescribes rules governing the continued airworthiness of civil aircraft registered in Sint Maarten, whether operating inside or outside the borders of Sint Maarten.

5.4.1.2 General

(a) No person may perform maintenance, preventive maintenance, or modifications on an aircraft other than as prescribed in this regulation.
(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 mandatory replacement times, inspection intervals, and related procedures specified in that section or alternative inspection intervals and related procedures set forth in the specific operating provisions approved under SMCAR Part 9, (and privately operated aircraft added to 5.6.1.8) or in accordance with the inspection program approved under SMCAR Part 8 have been complied with.
(c) No person may operate an aeronautical product to which an Airworthiness Directive applies, issued either by the State of Design or State of Manufacture and adopted for Sint Maarten -registered aircraft by the Authority, or by the State of Registry for aircraft operated within Sint Maarten, except in accordance with the requirements of that Airworthiness Directive.
(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 Minister may issue an Airworthiness Directive prescribing inspections and the conditions and limitations, if any, under which those products may continue to be operated.

5-6
(e) The Authority shall report any airworthiness directives or continuing additional airworthiness requirements that it issues or any malfunction or defect reports to the State of Design.

5.4.1.3 Responsibility

(a) 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) All maintenance, overhaul, modifications and repairs which affect airworthiness are performed as prescribed by Sint Maarten.
(2) Maintenance personnel make appropriate entries in the aircraft maintenance records certifying that the aircraft is airworthy;
(3) The approval for return to service (maintenance release) is completed to the effect that the maintenance work performed has been completed satisfactorily and in accordance with the prescribed methods; and
(4) In the event there are open discrepancies, the maintenance release includes a list of the uncorrected maintenance items for which temporary relief of provided in the MEL and these items are made a part of the aircraft permanent record.

(b) The owner or operator of an aeroplane over 5,700 kg maximum certificated take-off mass shall obtain and assess continuing airworthiness information and recommendations available from the organization responsible for the type design and shall implement resulting actions considered necessary in accordance with a procedure acceptable to the Authority.

5.4.1.4 Maintenance and Operational Experience

a. The owner or operator of an aeroplane over 5,700 kg maximum certificated take-off mass shall monitor and assess maintenance and operational experience with respect to continuing airworthiness and have a system whereby information on faults, malfunctions, defects and other occurrences that cause or might cause adverse effects on the continuing airworthiness of the aircraft is transmitted to the organization responsible for the type design of the aircraft.

b. The owner or operator and maintenance organizations shall report to the Authority in respect of aeroplanes over 5,700 kg and helicopters over 3,175 kg maximum certificated take-off mass the service information required by the Authority according to the procedure, established by the Authority.

c. The owner or operator and maintenance organizations shall transmit to the organization responsible for the type design of aircraft respect of aeroplanes over 5,700 kg and helicopters over 3,175 kg maximum certificated take-off mass information on faults, malfunction, defects and other occurrences that cause or might cause adverse effect on the continuing airworthiness of the aircraft.

5.4.1.5 Reporting of Failures, Malfunctions, and Defects

(a) Owners or operators of all aircraft over 5,700 kg maximum take-off weight shall report to the Authority any failures, malfunctions, or defects that result in at least the following:

(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 exhausts 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, vapor, 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;
5.5 AIRCRAFT MAINTENANCE AND INSPECTION

5.5.1.1 Applicability

This Subpart prescribes rules governing the maintenance and inspection of any aircraft having a Certificate of Airworthiness issued by Sint Maarten or associated aeronautical products.

5.5.1.2 General Requirements for Maintenance and Inspections
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(a) No person may operate an aircraft unless the aircraft and its components are maintained in accordance with a maintenance program and the aircraft is inspected according to an inspection program approved by the Authority.

(b) The maintenance program shall include a description of the aircraft and components and recommended methods for the accomplishment of maintenance tasks. Such information shall include guidance on defect diagnosis.

(c) The maintenance program shall include the maintenance tasks and the recommended intervals at which these tasks are to be performed.

(d) Maintenance tasks and frequencies that have been specified as mandatory by the State of Design in approval of the type design shall be identified in the maintenance program.

(e) The maintenance program shall have a maintenance release process, including signed documentation, in a manner satisfactory to the Authority, indicating that the maintenance performed has been completed satisfactorily. A maintenance release shall contain a certification including:
   (1) Basic details of the maintenance carried out;
   (2) Date such maintenance was completed;
   (3) When applicable, the identity of the approved maintenance organization, AMT, or AOC holder; and
   (4) The identity of the person or persons signing the release.

(f) The owner or operator shall use one of the following inspection programs as appropriate for the aircraft and the type operation.
   i. Annual inspection,
   ii. Annual/100 hour inspections,
   iii. Progressive, or
   iv. Continuous airworthiness maintenance program.

5.5.1.3 Persons Authorized to Perform Maintenance, Preventive Maintenance, Rebuilding and Modifications

(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 licensed 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 an aviation maintenance technician, may perform the maintenance, preventive maintenance, rebuilding and modifications that the supervisory aviation maintenance technician is authorized to perform:
      I. If the supervisor personally observes the work being done to the extent necessary to ensure that it is being done properly, and
      II. If the supervisor is readily available, in person, for consultation

   (3) A licensed 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 SMCAR Part 2 of these regulations.

   (4) An AMO may perform aircraft maintenance within the limits specified by the Authority.

   (5) The AOC holder may perform aircraft maintenance as specified by the Authority.

   (6) A manufacturer holding an AMO may:
      I. Rebuild or modify any aeronautical product manufactured by that manufacturer under a type or production certificate;
      II. Rebuild or modify any aeronautical product manufactured by that manufacturer under a TSO Authorization, 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 SMCAR Part 8 on aircraft it manufacturers, while currently operating under a production certificate or under a currently approved production inspection system for such aircraft.
5.5.1.4 Authorized Personnel to Approve for Return to Service

(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 licensed by the Minister may return his or her aircraft to service after performing authorized preventive maintenance.

2. A licensed aviation maintenance technician may approve aircraft and aeronautical products for return to service after he or she has performed, supervised, or inspected its maintenance subject to the limitation of Sint Maarten Civil Aviation licensing regulation.

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.

5.5.1.5 Persons Authorized to Perform Inspections

(a) No person, other than the Inspector authorized by the Authority, may perform the inspections required by SMCAR Part 8 under "Required Aircraft and Equipment Inspections" 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 the specifications approved by the Authority.

3. An AOC holder may perform the required inspections of aircraft and aeronautical products in accordance with specifications issued by the Authority.

5.5.1.6 Performance Rules: Maintenance

(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.

(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 acceptable to the Authority.

(c) Each person performing maintenance, preventive maintenance, rebuilding or modification on an aeronautical product shall do that work in such 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 modified condition with regard to aerodynamic function, structural strength, resistance to vibration and deterioration, and other qualities affecting airworthiness.

(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 subsection.

(e) Aircraft Parts and Materials:

1. All aeronautical parts and materials being installed or used on a Sint Maarten registered aircraft must be traceable and must be supplied with documentation to attest to the fact.
(2) All rotatable parts must be supplied with an original or certified copy of an Authorised Release Certificate that complies with the requirements of the SMCAA, FAA, Transport Canada, EASA (European Aviation Safety Agency) or equivalent Aviation Safety Agency.

(3) All expendable parts must be supplied with either an Authorised Release Certificate as in (b) or a signed Certificate of Conformity that carries an appropriate statement that the part complies with airworthiness requirements. Packing Slips that incorporate signed conformance certification are also acceptable.

(4) Segments of bulk parts covered under a single certification document may be supplied with a copy of the document along with the necessary certification stating the location where the original documentation is being held on file.

(5) Uncertified photocopies of documentation are NOT acceptable.

(6) Whenever a part or item of material is installed on an aircraft, the documentation specified in (a) through (d) above, as applicable, must be included in the aircraft records along with the worksheet, job card, or logbook page that carries the entry for the work performed.

5.5.1.7 Performance Rules: Inspections

(a) General. Each person performing an inspection required by the Authority shall perform the inspection so as to determine whether the aircraft, or portion(s) thereof under inspection, meets all applicable airworthiness requirements; and

(b) Rotorcraft. 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 concerned:

   (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.

(c) Annual and 100-hour inspections.

   (1) Each person performing an annual or 100-hour inspection shall use a checklist while performing the inspection. 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. This checklist shall include the scope and detail of the items prescribed by the Authority. See IS: 5.5.1.7 for components to be included in an annual or 100-hour inspection.

   (2) Each person approving a piston-engine 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) Magneto(s);
      (iii) Fuel and oil pressure; and
      (iv) Cylinder and oil temperature.

   (3) Each person approving a turbine-engine 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.

(d) Progressive inspections.

   (1) Each person performing a progressive inspection shall, at the start of a progressive inspection system, inspect the aircraft completely. After this initial inspection, routine and detailed inspections must be conducted as prescribed in the progressive inspection schedule. Routine inspections consist of visual examination or check of the appliances the aircraft and its components and systems, insofar as practicable without disassembly. Detailed inspections consist of a thorough examination of the appliances, the aircraft, and its components and systems, with such disassembly as is necessary. For the purposes of this subparagraph, the overhaul of a component or system is considered to be a detailed inspection.

   (2) If the aircraft is away from the station where inspections are normally conducted, an appropriately rated AMT, an AMO or the manufacturer of the aircraft may perform inspections in accordance with the procedures and using the forms of the person who would otherwise perform the inspection.
(e) Continuous airworthiness maintenance program inspections.
   (1) Each person performing the inspection program required for an AOC holder’s aircraft or aircraft maintained under a continuous airworthiness maintenance program, shall perform the inspection in accordance with the instructions and procedures set forth in the inspection program.

5.5.1.8 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.

5.5.1.9 Aircraft Mass and Balance

(a) General
   (1) Except as specified in (2) of this paragraph, the mass of each aircraft shall be determined prior to the initial issue of the Certificate of Airworthiness.
   (2) Determination of the mass of an aircraft prior to the initial issue of a Certificate of Airworthiness may not be required in the case of:
      (a) An aircraft in respect of which the mass has been determined prior to importation and in respect of which any subsequent changes in mass have been duly computed and recorded;
      (b) A newly manufactured aircraft having a maximum TOM not exceeding 5700 Kg., the empty mass of which has been established in accordance with information and computation supplied by the manufacturers thereof;
      (c) If the basic mass is estimated to have changed by not more than 0.5 % of the MTOM, and if the centre of gravity is estimated to have changed by not more than 0.5 % of the MAC.
   (b) Periodic Determination of Mass
      Unless otherwise approved by the Minister further determination of mass shall be done subsequent to the initial determination or mass determination arrived at in accordance with the above and at the intervals specified in the following;
      (1) Aircraft with a MTOM of 5700 Kg and greater, every 5 years.
      (2) Aircraft with a MTOM below 5700 Kg, every 3 years.

5.6 MAINTENANCE AND INSPECTION RECORDS AND ENTRIES

5.6.1.1 Content, Form, and Disposition of records for Maintenance, Preventive Maintenance, Rebuilding, and modification of aircraft and life limited parts

(a) Each person who maintains, performs preventive maintenance, rebuilds, or modifies an aircraft or aeronautical product shall, when the work is performed satisfactorily, make an entry in the maintenance record of that equipment as follows:
   (1) A description (or reference to data acceptable to the Authority) of work performed including:
      I. The total time in services (hours, calendar time and cycles, as appropriate) of the aircraft and all life-limited components;
      II. The current status of compliance with all mandatory continuing airworthiness information;
      III. Appropriate details of modifications and repairs;
      IV. Time in service (hours, calendar time and cycles, as appropriate) since last overhaul of the aircraft or its components subject to a mandatory overhaul life;
      V. The current status of the aircraft’s compliance with the maintenance program; and the detailed maintenance records to show that all requirements for signing of a maintenance release have been met.
   (2) Completion date and time of the work performed;
(3) Name, signature, certificate number, and kind of license held by the person approving the work. 
Note: The signature constitutes the approval for return to service only for the work performed.

(b) In addition to the entry required by paragraph (a), major repairs and modifications shall be entered on a form, and the form disposed of, in the manner prescribed in IS: 5. 6.1.1(b), by the person performing the work.

5.6.1.2 Content, Form and Disposition of Records for Maintenance, Preventive maintenance, Overhaul, Modification and Rebuilding of a Product

(a) No person shall approve for return to service any aeronautical product that has undergone maintenance, preventive maintenance, overhaul modification or rebuilding of a product unless:

(1) The appropriate maintenance record entry has been made:

(2) The repair or modification form authorized by or furnished by the Authority has been executed in a manner prescribed by the Authority:

(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.

(b) Additional entries for overhaul and rebuilding.

(1) No person shall describe in any required maintenance entry or form, an aeronautical product as being overhauled or rebuilt unless:

I. It has been disassembled, cleaned, inspected as permitted, repaired as necessary, and reassembled using methods, techniques, and practices acceptable to the Authority; and

II. 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.

(2) No person shall describe in any required maintenance entry or form an aircraft or other aeronautical product as being rebuilt unless it has been disassembled, cleaned, inspected as permitted, repaired as necessary, reassembled, and 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.

(c) If the maintenance, preventive maintenance, overhaul, modification or rebuilding of a product is performed by an AMO, the AMO shall complete an airworthiness approval tag (CAA form) as prescribed in SMCAR Part 6.

5.6.1.3 Content, Form, and Disposition of Records of Inspections for return to service

(a) Maintenance record entries. The person approving or disapproving the return to service of an aeronautical product after any inspection performed in accordance with SMCAR Part 8, 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 or component total time in service;

(3) Signature, the license number, and kind of license held by the person approving or disapproving for return to service of the aeronautical product;

(4) If the aircraft or component is found to be airworthy and approved for return to service, the following or a similarly worded statement: "I certify that this aircraft / component has been inspected in accordance with (insert type) inspection and was determined to be in airworthy condition";

(5) If the aircraft or component is not approved for return to service 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 / component has been inspected in accordance with (insert type) inspection and a list of discrepancies and unairworthy items dated (date) has been provided for the aircraft owner/holder or operator"; and

(6) If an inspection is conducted under an inspection program provided for in SMCAR Part 8, 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.

(b) Listing of discrepancies. The person performing any inspection required in SMCAR Part 8 who finds that the
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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 discrepancies.
IS: 5.1.1.2 Modification, repairs and Preventive Maintenance

IS: 5.1.1.2(a) (8) Major Modifications

(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 manufacturer specifications or type certificate data sheet (TCDS)):

1. Wings.
2. Tail surfaces.
3. Fuselage.
4. Engine mounts.
5. Control system.
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 system 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 pressurization, 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.

(b) **Powerplant Major Modifications.** Major power plant 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.
Propeller Major Modifications. Major propeller modifications, when not authorized 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.

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 authorization that have an effect on frequency stability, noise level, sensitivity, selectivity, distortion, spurious radiation, automatic volume control (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.

IS: 5.1.1.2(a) (9) Major Repairs

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 airframe major repairs.

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.
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, stabilizers, and control surfaces.
(27) Repairing, including rebottoming, of removable or integral fuel tanks and oil tanks.

(f) **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 piston engine equipped with an integral supercharger.
2. Separation or disassembly of a crankcase or crankshaft of a piston engine equipped with other than spur-type propeller reduction gearing.
3. Special repairs to structural engine parts by welding, plating, metalizing, or other methods.
4. Propeller Major Repairs. Repairs of the following types to a propeller are propeller major repairs:
5. Any repairs to or straightening of steel blades.
6. Repairing or machining of steel hubs.
7. Shortening of blades.
8. Retipping of wood propellers.
9. Replacement of outer laminations on fixed pitch wood propellers.
10. Repairing elongated bolt holes in the hub of fixed pitch wood propellers.
11. Inlay work on wood blades.
12. Repairs to composition blades.
14. Replacement of plastic covering.
15. Repair of propeller governors.
17. Repairs to deep dents, cuts, scars, nicks, etc., and straightening of aluminum blades.
18. The repair or replacement of internal elements of blades.

(g) **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.

**IS: 5.1.1.2(a) (11) Preventive Maintenance**

(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 cowlings 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.
IS: 5.5.1.7 Performance Rules: 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.

(b) Each person performing an annual or 100-hour inspection shall inspect, where applicable, the following components:

(1) Fuselage and hull group:
   (a) Fabric and skin - for deterioration, distortion, other evidence of failure, and defective or insecure attachment of fittings.
   (b) Systems and components - for improper installation, apparent defects, and unsatisfactory operation.
   (c) The cabin and cockpit group.
   (d) Generally - for uncleanness and loose equipment that might foul the controls.
   (e) Seats and safety belts - for poor condition and apparent defects.
   (f) Windows and windshields - for deterioration and breakage.
   (g) Instruments - for poor condition, mounting, marking, and (where practicable) for improper operation.
   (h) Flight and engine controls - for improper installation and improper operation.
   (i) Batteries - for improper installation and improper charge.
   (j) All systems - for improper installation, poor general condition, apparent and obvious defects, and insecurity of attachment.

(2) Engine and nacelle group:
   (a) Engine section - for visual evidence of excessive oil, fuel, or hydraulic leaks, and sources of such leaks.
   (b) Studs and nuts - for improper torqueing and obvious defects.
   (c) 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.
   (d) Engine mount - for cracks, looseness of mounting, and looseness of engine to mount.
   (e) Flexible vibration dampeners - for poor condition and deterioration.
   (f) Engine controls - for defects, improper travel, and improper safetying.
   (g) Lines, hoses, and clamps - for leaks, improper condition, and looseness.
   (h) Exhaust stacks - for cracks, defects, and improper attachment.
   (i) Accessories - for apparent defects in security of mounting.
   (j) All systems - for improper installation, poor general condition, defects, and insecure attachment.
   (k) Cowling - for cracks and defects.

(3) Landing gear group:
   (a) All units - for poor condition and insecurity of attachment.
   (b) Shock absorbing devices - for improper oleo fluid level.
   (c) Linkage, trusses, and members - for undue or excessive wear, fatigue, and distortion.
   (d) Retracting and locking mechanism - for improper operation.
   (e) Hydraulic lines - for leakage.
   (f) Electrical system - for chafing and improper operation of switches.
   (g) Wheels - for cracks, defects, and condition of bearings.
   (h) Tires - for wear and cuts.
   (i) Brakes - for improper adjustment.
   (j) Floats and skis - for insecure attachment and obvious or apparent defects.

(4) Wing and centre section assembly for:
   (a) Poor general condition,
   (b) Fabric or skin deterioration,
   (c) Distortion,
   (d) Evidence of failure, and
(e) Insecurity of attachment.

(5) Complete empennage assembly for:
(a) Poor general condition,
(b) Fabric or skin deterioration,
(c) Distortion,
(d) Evidence of failure,
(e) Insecure attachment,
(f) Improper component installation, and
(g) Improper component operation.

(6) Propeller group:
(a) Propeller assembly - for cracks, nicks, bends, and oil leakage,
(b) Bolts - for improper torquing and lack of safety,
(c) Anti-icing devices - for improper operations and obvious defects, and
(d) Control mechanisms - for improper operation, insecure mounting, and restricted travel.

(7) Avionics/instrument group:
(a) Avionics/instruments equipment - for improper installation and insecure mounting.
(b) Wiring and conduits - for improper routing, insecure mounting, and obvious defects.
(c) Bonding and shielding - for improper installation and poor condition.
(d) Antenna including trailing antenna - for poor condition, insecure mounting, and improper operation.

(8) Electronic/electrical group:
(a) Wiring and conduits - for improper routing, insecure mounting, and obvious defects.
(b) Bonding and shielding - for improper installation and poor condition.
(c) 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.

IS: 5.6.1.1 CONTENT, FORM AND DISPOSITION OF RECORDS FOR MAINTENANCE, PREVENTIVE MAINTENANCE, REBUILDING AND MODIFICATION OF AIRCRAFT AND LIFE LIMITED PARTS

IS: 5.6.1.1(B) Recording of Major Repairs and Major Modifications

(a) Each person performing a major repair or major modification shall:
(1) Execute the appropriate form prescribed by the Authority at least in duplicate;
(2) Give a signed copy of that form to the aircraft owner/operator; and
(3) Forward a copy of that form to the Authority, in accordance with Authority instructions, within 48 hours after the aeronautical product is approved for return to service.

Note: Some CAA's have an electronic system for recording major repairs and modifications. This IS is written presuming Sint Maarten Civil Aviation authority will use a hard copy form in duplicate. If an electronic system is used, the items here are recommended for inclusion in the system.

(b) In place of the requirements of paragraph (a), for major repairs made in accordance with a manual or specifications acceptable to the Authority, an AMO may:
(1) Use the customer's work order upon which the repair is recorded;
(2) Give the aircraft owner a signed copy of the work order and retain a duplicate copy for at least one year from the date of approval for return to service of the aeronautical product;
(3) Give the aircraft owner a maintenance release signed by an authorized representative of the AMO and incorporating the following information:
   (a) Identity of the aeronautical product;
   (b) If an aircraft, the make, model, serial number, nationality and registration marks, and location of the repaired area;
   (c) If an aeronautical product, give the manufacturer's name, name of the part, model, and serial numbers (if any); and
(4) Include the following or a similarly worded statement:
The aeronautical product identified above was repaired, overhauled and inspected in accordance with currently effective, applicable instructions of the State of Design and regulatory requirements of the Authority, and is approved for return to service.
Pertinent details of the repair are on file at this maintenance organization.

Order No. __________________________ Date __________________________

Signed ________________________________

(Signature of authorized representative)

(Facility Name) (AMO Certificate Number)

(Address)
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The following sample form may be used to record major modifications and repairs.

MAJOR REPAIR AND MODIFICATION
(Airframe, Powerplant, Propeller, or Appliance)

INSTRUCTIONS: Print or type all entries. See SMCAR Part 5, 5.7.1.1 and IS: 5.7.1.1 for instructions and disposition of this form.

<table>
<thead>
<tr>
<th>Aircraft</th>
<th>Make</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial Number</td>
<td>Nationality and Registration Mark</td>
<td></td>
</tr>
<tr>
<td>Owner</td>
<td>Name (As shown on registration Certificate of Registration)</td>
<td>Address (As shown on Certificate of Registration)</td>
</tr>
</tbody>
</table>

3. For SMCAA Use Only

4. Unit Identification

<table>
<thead>
<tr>
<th>Unit</th>
<th>Make</th>
<th>Model</th>
<th>Serial Number</th>
<th>Repair</th>
<th>Modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airframe</td>
<td></td>
<td></td>
<td>(As described in item 1 above)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powerplant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propeller</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appliance</td>
<td>Type</td>
<td>Manufacturer</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. Type

6. Conformity Statement

1. Organization Name and Address

2. Kind of License/Organization

3. Certificate/License Number

4. I certify that the repair and/or modification made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of SMAR Part 5 and that the information furnished herein is true and correct to the best of my knowledge.

5. Signature of Authorized Individual

7. Approval for Return To Service

Pursuant to the Authority given persons specified below, the unit(s) identified in item 4 was/were inspected in the manner prescribed by the Section Civil Aviation Sint Maarten and is

☑ APPROVED ☐ REJECTED

☐ SMCAA Inspector ☐ Inspection Authorization ☐ Other (Specify)

☐ Maintenance Organization ☐ Other

Date of Approval or Rejection

Certificate or Designation Number

Signature or Authorized Individual
NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. A modification must be compatible with all previous modifications to assure continued conformity with the applicable airworthiness requirements.

1. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify each page with aircraft nationality and registration mark and date work completed.)
INSTRUCTIONS FOR COMPLETION OF MAJOR REPAIR AND MODIFICATION FORM

Item 1 – Aircraft. Information to complete the "make," "model," and "serial number" blocks will be found on the aircraft manufacturer’s identification plate. The “Nationality and Registration Mark” is the same as shown on Certificate of Aircraft Registration.

Item 2 – Owner. Enter the aircraft owner’s complete name and address as shown on the Certificate of Aircraft Registration.

Note: When a major repair or modification is made to a spare part or appliance, items 1 and 2 will be left blank, and the original and duplicate copy of the form will remain with the part until such time as it is installed on an aircraft. The person installing the part will then enter the required information in blocks 1 and 2, give the original of the form to the aircraft owner/operator, and forward the duplicate copy to the Authority within 48 hours after the work is inspected.

Item 3 – For Authority use only. Approval may be indicated in Item 3 when the Authority determines that data to be used in performing a major modification or a major repair complies with accepted industry practices and all applicable Sint Maarten regulations. Approval is indicated in one of the following methods:

1. Approval by examination of data only – one aircraft only: "The data identified herein complies with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in § 5.5.1.4.

2. Approval by physical inspection, demonstration, testing, etc. of the data and aircraft – one aircraft only: "The modification or repair identified herein complies with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspections by a person in § 5.5.1.4."

3. Approval by examination of data only – duplication on identical aircraft. "The modification identified herein complies with the applicable airworthiness requirements and is approved for duplication on identical aircraft make, model, and modified configuration by the original modifier."

4. A signature in Item 3, "For Authority Use Only," indicates approval of the data described in that section for use in accomplishing the work described under Item 8, "Description of the Work Accomplished." This signature does not indicate SMCAA approval of the work described under Item 8 for return to service.

Item 4 – Unit identification. The information blocks under item 4 are used to identify the airframe, powerplant, propeller, or appliance repaired or modified. It is only necessary to complete the blocks for the unit repaired or modified.

Item 5 – Type. Enter a checkmark in the appropriate column to indicate if the unit was repaired or modified.

Item 6 – Conformity Statement.

"A" – Agency’s name and address. Enter name of the AMT, AMO or manufacturer accomplishing the repair or modification. AMT’s should enter their name and permanent mailing address. Manufacturers and AMOs should enter the name and address under which they do business.

"B" – Kind of License / Organization. Check the appropriate box to indicate the type of person or organization who performed the work.

"C" – Certificate/license number. AMT’s should enter their AMT license number in this block. AMO’s should enter their AMO certificate number and the ratings or ratings under which the work was performed. Manufacturers should enter their type production or Supplemental Type Certificate (STC) number. Manufacturers of Technical Standard Orders (TSO) appliances modifying these appliances should enter the TSO number of the appliance modified.

"D" – Compliance Statement. This space is used to certify that the repair or modification was made in accordance with this Part of these regulations. When work was performed or supervised by licensed AMT’s not employed by a manufacturer or AMO, they should enter the date the repair or modification was completed and sign their full name. AMO’s are permitted to authorize persons in their employ to date and sign this conformity statement.

A signature in Item 6, "Conformity Statement," is a certification by the person performing the work that it was accomplished in
accordance with applicable SMCAA and SMCAA-approved data. The certification is only applicable to that work described under item 8, "Description of Work Accomplished." This signature does not indicate SMCAA approval of the work described under item 8 for return to service.

Item 7 – Approval for Return to Service. This Part establishes the conditions under which major repairs and Modifications to airframes, powerplants, propellers, and/or appliances may be approved for return to service. This portion of the form is used to indicate approval or rejection of the repair or modification of the unit involved and to identify the person or agency making the airworthiness inspection. Check the "approved" or "rejected" box to indicate the finding. Additionally, check the appropriate box to indicate who made the finding. Use the box labeled "other" to indicate a finding by a person other than those listed. Enter the date the finding was made. The authorized person who made the finding should sign the form and enter the appropriate certificate or designation number.

1. Previously Approved Data. The forms will be completed as instructed ensuring that Item 7 is completed as noted above.

2. Non-previously Approved Data. The form will be completed as instructed, leaving item 7, "Approval for Return to Service" blank and both copies of the form will be sent to the Authority with supporting data. When the SMCAA determines that the major repair or modification data complies with the applicable regulations and is in conformity with accepted industry practices, data approval will be recorded by entering an appropriate statement in item 3, "for SMCAA use only." Both forms and supporting data will be returned to the applicant who will complete item 7 "Approval for Return to Service." The applicant will give the original of the form, with its supporting data to the aircraft owner or operator and return the duplicate copy to the Authority for inclusion in the aircraft records at its Aircraft Registry.

A signature in Item 7, "Approval for Return to Service," does not signify SMCAA approval unless the box to the left of "SMCAA Inspector" has been checked. The other persons listed in Item 7 are authorized to "approve for return to service" if the repair or modification is accomplished using SMCAA-approved data, performed in accordance with this Part, and found to conform.

Item 8 – Description of Work Accomplished. A clear, concise, and legible statement describing the work accomplished should be entered in the item 8 on the reverse side of the form. It is important that the location of the repair or modification, relative to the aircraft or component, be described. The approved data used as the basis for approving the major repair or modification for the return to service should be identified and described in this area.

1. For example, if a repair was made to a buckled spar, the description and entered in this part might begin by stating, "Removed wing from aircraft and removed skin from outer 6 feet. Repaired buckled spar 49 inches from the tip in accordance with ..." and continue with a description of the repair. The description should refer to applicable regulations and approved data used to substantiate the airworthiness of the repair or modification. If the repair or modification is subject to being covered by skin or other structures, statement should be made certifying that a precover inspection was made and that covered areas were found satisfactory.

2. Data used as a basis for the approving major repairs or modifications for return to service shall be approved prior to its use for that purpose and includes: Airworthiness Directives, Advisory Circulars under certain circumstances, TSO parts manufacturing approval, Approved Manufacturer's Instructions, kits and service handbooks, type certificates data sheets, and aircraft specifications. Supporting data such as stress analyses, test reports, sketches or photographs should be submitted on the form. These supporting data will be returned to the applicant by the Authority.

3. If additional space is needed to describe the repair or modification, attach sheets bearing the aircraft nationality and registration mark and the date work was completed.

4. Showing weight and balance computations under this item are not required; however, it may be done. In all cases where weight and balance of the aircraft are affected, the changes should be entered in the aircraft weight and balance records with the date, signature, and reference to the work performed on the SMCAA form-006 Form that required the changes.

Note: SMCAA form – 006 Form is not authorized for use on other than Sint Maarten registered aircraft. If a foreign civil aviation authority requests the form, as a record of work performed, it may be provided.
Appendix to the Application for issuance of a certificate of airworthiness

AIRCRAFT SYSTEMS, INSTALLATIONS AND EQUIPMENT

When applying for the initial issuance of a certificate of airworthiness, the applicant will be required to complete the items listed in this Appendix. All items will be completed as appropriate; in cases where items are not relevant, the words "not applicable" will be entered.

Name of applicant: ____________________
Registration Marks, current or allotted: ____________________
Aircraft type: ____________________
Previous (if any):
Manufacturer's serial number: ____________________
Series: ____________________

SYSTEM, INSTALLATION OR EQUIPMENT DETAILS

1. Pressurization system:
2. Automatic flight control and guidance systems:
3. Cockpit voice recorder:
4. Electric power generators:
   4.1 Engine driven -
      a) dc only (incl. alternators/built-in rectification)
      b) dc and ac
      c) ac only, frequency range
   4.2 Helicopter transmission driven
      a) dc only
      b) dc and ac
      c) ac only, frequency range
5. Main batteries:
   a) Nickel/Cadmium
   b) Lead/Acid
   c) Number fitted
6. Oxygen:
   a) Installed
7. Engine fire detection system:
8. Portable fire extinguishers:
9. Stall detection and warning system:
10. Fuel quantity indicating system:
11. Ice and rain protection systems:
12. Flight data recording system:
13. Emergency lighting system:
   a) Rotating beacons:
14. Anti-collision lighting:
   b) Strobe lights:
15. Compasses:
   a) Remote reading
16. Automatic navigation system
17. Rotor low rpm warning system (helicopters only)
18. Systems installed for agricultural purposes

OTHER INFORMATION

19. Are there provisions for the installation of safety harnesses at
   a) Flight crew seat positions?
   b) Cabin crew seat positions?
   c) Passenger seat positions?
20. Are there provisions for carrying external loads?
21. Are there provisions for glider towing?
22. State total fuel capacity..........................kg
23. Give details of equipment, other than that listed in 1 to 18, which has introduced by modification action (state manufacturer and type).

24. Give details of changes, if any, introduced in the Flight Manual, as a result of modification action.
Application for renewal of a Certificate of airworthiness

Ministry of Tourism, Economic Affairs, Transport and Telecommunication
Sint Maarten Civil Aviation Authority
Philipsburg - Sint Maarten

1. Aircraft type: ____________________________ Registration marks: PJ -

Maintenance schedule reference: ____________________________

Types of operations envisaged.

☐ a. Transport of passengers.
☐ b. Transport of cargo
☐ c. General purpose
☐ d. Aerial work
☐ e. Private
☐ f. Special operations (specify)

2. Name and address of applicant: ____________________________

3. Name and address of registered owner: ____________________________

4. Name and address of approved organization/licensed aircraft maintenance personnel where aircraft is available for inspection: ____________________________

5. Maximum take-off mass authorized: Kg / Lbs

6. Details of avionic equipment (if fitted): ____________________________

7. Utilization during 12 months prior date of application: ____________________________ hours flying (required for aircraft whose maximum total mass authorized exceeds 3700kg or utilized in commercial operation)

I hereby certify that in carrying out inspection of the above-mentioned aircraft, all the requirements of the approved maintenance schedule, appropriate Airworthiness Directives and special inspections have been complied with. The enclosed wire transfer of NAf ________ is in accordance with the latest scale of charges and I agree to be responsible for the payment of any other charges relating to this application.

Place: ____________________________ Date: - - Applicant: ____________________________

(Signature) See Reverse side
The following work is to be carried out for the renewal of the Certificate of Airworthiness:

<table>
<thead>
<tr>
<th>Place:</th>
<th>Airworthiness Inspector:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td></td>
</tr>
</tbody>
</table>

Signature

(This application form, when completed, must be forwarded to the Authority of Civil Aviation)
### Bijlage D behorende bij artikel 2, vierde lid, van de Regeling luchtvaardigheid van luchtvaartuigen

<table>
<thead>
<tr>
<th>Dit certificaat moet altijd aan boord zijn van het luchtvaartuig</th>
</tr>
</thead>
<tbody>
<tr>
<td>This certificate shall be carried in the aircraft at all times</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SINT MAARTEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINT MAARTEN LUCHTVAART AUTORITEIT</td>
</tr>
<tr>
<td>(Sint Maarten Civil Aviation Authority)</td>
</tr>
<tr>
<td>Ministerie van Toerisme, Economische Zaken, Verkeer, en Telecommunicatie</td>
</tr>
<tr>
<td>(Ministry of Tourism, Economic Affairs, Transport and Telecommunication)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BEWIJS VAN LUCHTVAARDIGHEID</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Certificate of Airworthiness)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No: ...- ...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial Aircraft</td>
</tr>
<tr>
<td>Commercieel Vliegtuig</td>
</tr>
</tbody>
</table>

<p>| 1. Nationaliteits- en Inschrijvingskenmerk: |</p>
<table>
<thead>
<tr>
<th>(Nationality- and Registration marks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P J -</td>
</tr>
</tbody>
</table>

| 2. Fabrikant: |
| (Manufact.) |
| Type-aanduiding Luchtvaartuig: |
| (Man. Designation of aircraft) |

<p>| 3. Fabrieksnummer: |</p>
<table>
<thead>
<tr>
<th>(Aircraft serial No.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>....................</td>
</tr>
</tbody>
</table>

| (Categories) | ................. |
|----------------|
| 4.1. Reference Airworthiness Code in accordance with SMCAR Part 5, paragraph 5.4.1.4. b(2) |

| 5. Dit bewijs van luchtvaardigheid wordt uitgereikt ingevolge het op 7 december 1944 te Chicago gesloten Verdrag inzake de Internationale Burgerluchtvaart en conform de ter uitvoering van het Landsbesluit Toezicht Luchtvaart gegeven Luchtvaardigheidseisen opgenomen in SMCAR Part 5. Het bovengenoemde luchtvaartuig is luchtvaardig zolang het wordt onderhouden conform de bepalingen van voornoemde wetselijke regeling en zolang het aan de gestelde luchtvaardigheidseisen voldoet, aangezien gebruikt wordt in overeenstemming met de van toepassing zijnde gebruiksbepalingen. |

| This Certificate of Airworthiness is issued, pursuant to the Convention on International Civil Aviation dated 7 December 1944 and in accordance with the regulation in virtue of the Government Decree on Civil Aviation Safety Oversight namely SMCAR Part 5. The above mentioned aircraft is considered to be airworthy when maintained and operated in accordance with the foregoing and the pertinent operating limitations. |

| Datum van eerste uitreiking: |
| (Date of first issue) |

| (Voor) De Minister van Toerisme, Economische Zaken, Verkeer en Telecommunicatie, |
| (For) The Minister of Tourism, Economic Affairs, Transport & Telecommunication |

| Aviation Safety Inspector, Airworthiness |
| Sint Maarten Civil Aviation Authority |

| 6. Datum van afloop van de termijn van geldigheid: |
| (Date of expiration) |

| Voor verlenging zie ommezijde |
| (For renewal please turnover) |
| Datum van verlenging: (Date of renewal) | Dit bewijs is geldig tot: (This certificate is valid until) | Voor de Minister van Toerisme, Economische Zaken, Verkeer en Telecommunicatie ((For the Minister of Tourism, Economic Affairs, Transport and Telecommunication) |