

Part 21
ISSUANCE OF CERTIFICATES FOR AIRCRAFT AND PRODUCTS,
EQUIPMENTS OF AIRCRAFT

SUBPART A: GENERAL	5
21.001 APPLICABILITY.....	5
21.003 DEFINITIONS.....	5
21.005 ACRONYMS.....	5
21.007 AUTHORIZATION TO OTHER PERSONS AND ORGANIZATIONS	5
21.010 FAILURES, MALFUNCTIONS, AND DEFECTS	5
21.013 AIRWORTHINESS DIRECTIVE.....	6
21.015 COMBINATION BETWEEN DESIGN AND MANUFACTURE	6
SUBPART B: TYPE CERTIFICATE AND PROVISIONAL TYPE CERTIFICATE	7
21.017 APPLICABILITY.....	7
21.020 ELIGIBILITY.....	7
21.023 CAPABILITY.....	7
21.025 CONDITION ON ISSUING AND RECOGNIZING TYPE CERTIFICATE	7
21.030 SPECIAL CONDITIONS	8
21.033 BASIS FOR ISSUING TYPE CERTIFICATE.....	9
21.035 ENVIRONMENT PROTECTION REQUIREMENT AND APPROVAL FEATURES.....	9
21.037 CHANGES REQUIRING A NEW TYPE CERTIFICATE.....	10
21.040 COMPLIANCE WITH BASIS FOR ISSUING TYPE CERTIFICATE AND ENVIRONMENT PROTECTION REQUIREMENTS.....	10
21.043 ISSUANCE OF TYPE CERTIFICATE	10
21.045 ISSUANCE OF PROVISIONAL TYPE CERTIFICATE.....	11
21.047 TYPE DESIGN.....	12
21.050 INSPECTION AND TESTS.....	12
21.053 FLIGHT TESTS	13
21.057 TYPE CERTIFICATE.....	13
21.060 RESPONSIBILITIES OF TYPE CERTIFICATE HOLDER	13
21.063 TRANSFERABILITY	14
21.065 VALIDITY AND EFFECTIVENESS.....	14
21.067 STORAGE OF DOCUMENTATION.....	14
21.070 INSTRUCTION MANUAL	14
21.071 ORDER, PROCEDURE, RECOGNITION OF TYPE CERTIFICATE	15
21.073 INSTRUCTIONS FOR CONTINUED AIRWORTHINESS.....	15
SUBPART C: (BLANK)	16
SUBPART D: CHANGES TO TYPE CERTIFICATES	16
21.075 APPLICABILITY.....	16
21.077 CLASSIFICATION OF CHANGES IN TYPE DESIGN	16
21.080 ELIGIBILITY.....	16
21.083 APPLICATION FOR APPROVAL	16

21.085 MINOR CHANGE	16
21.087 MAJOR CHANGE	17
21.090 APPROVAL FEATURES AND ENVIRONMENT PROTECTION REQUIREMENTS	17
21.093 APPROVAL OF CHANGE.....	18
21.095 STORAGE OF DOCUMENTATION.....	19
21.097 INSTRUCTIONS FOR CONTINUED AIRWORTHINESS.....	19
21.100 RESPONSIBILITIES AND MODEL REGISTRATION	19
SUBPART E: SUPPLEMENTAL TYPE CERTIFICATES	19
21.103 APPLICABILITY	19
21.105 ELIGIBILITY	19
21.107 CAPABILITY DEMONSTRATION	19
21.110 APPLICATION OF SUPPLEMENTAL TYPE CERTIFICATE	20
21.113 COMPLIANCE DEMONSTRATION.....	20
21.115 ISSUANCE OF SUPPLEMENTAL TYPE CERTIFICATE	20
21.117 TRANSFERABILITY	20
21.120 CHANGE OF A PART OF PRODUCT UNDER THE SUPPLEMENTAL TYPE CERTIFICATE	20
21.123 RESPONSIBILITIES AND MODEL REGISTRATION	20
21.125 VALIDITY AND EFFECTIVENESS.....	21
21.127 INSTRUCTION MANUAL	21
21.130 INSTRUCTIONS FOR CONTINUED AIRWORTHINESS.....	21
SUBPART F: PRODUCTION BY MANUFACTURER WITHOUT CERTIFICATE.....	21
21.133 APPLICABILITY.....	21
21.135 ELIGIBILITY	22
21.137 APPLICATION	22
21.140 LETTER OF AGREEMENT.....	22
21.143 VIOLATIONS	22
21.145 VALIDITY AND EFFECTIVENESS.....	23
21.147 INSPECTION SYSTEM OF PRODUCTION PROCESS	23
21.150 TESTS: AIRCRAFT.....	24
21.153 TESTS: AIRCRAFT ENGINES AND PROPELLERS	24
21.155 RESPONSIBILITIES OF MANUFACTURER	24
21.157 STATEMENT OF COMPLIANCE.....	25
SUBPART G: MANUFACTURER APPROVAL.....	26
21.160 APPLICABILITY.....	26
21.163 ELIGIBILITY	26
21.167 APPLICATION OF APPROVAL.....	26
21.170 MANUFACTURER APPROVAL	27
21.173 QUALITY SYSTEM.....	27
21.175 STATEMENT OF MANUFACTURER	28
21.177 REQUIREMENTS FOR APPROVAL.....	28
21.180 CHANGE OF MANUFACTURER.....	29
21.183 CHANGE OF LOCATION	29
21.185 TRANSFERABILITY	30

21.187	LIMITATION OF APPROVAL.....	30
21.190	CHANGE OF LIMITATION OF APPROVAL.....	30
21.193	INSPECTION, ASSESSMENT.....	30
21.195	VIOLATIONS	30
21.197	VALIDITY AND EFFECTIVENESS.....	30
21.200	PRIVILEGES.....	31
21.203	RESPONSIBILITIES OF PRODUCTION CERTIFICATE HOLDER.....	31
SUBPART H: (Reserved).....		32
SUBPART I: NOISE CERTIFICATE.....		32
21.205	APPLICABILITY.....	32
21.207	ELIGIBILITY	32
21.210	APPLICATION FOR NOISE CERTIFICATE	33
21.213	ISSUANCE OF NOISE CERTIFICATE	33
21.215	CHANGE OR MODIFICATION.....	33
21.217	TRANSFERABILITY	33
21.220	INSPECTION	34
21.223	VALIDITY AND EFFECTIVENESS.....	34
SUBPART J: APPROVAL OF DESIGN ORGANIZATION		34
21.225	APPLICABILITY.....	34
21.227	ELIGIBILITY	34
21.230	APPLICATION OF APPROVAL.....	34
21.233	AUTHORITY OF APPROVAL OF DESIGN ORGANIZATION.....	35
21.235	DESIGN ASSURANCE SYSTEM	35
21.237	DATA	35
21.240	REQUIREMENTS FOR APPROVAL.....	36
21.243	CHANGE IN THE DESIGN ASSURANCE SYSTEM.....	36
21.245	TRANSFERABILITY	36
21.247	LIMITATION OF APPROVAL.....	36
21.250	CHANGE OF LIMITATION OF APPROVAL.....	36
21.253	INSPECTION, ASSESSMENT.....	36
21.257	VIOLATIONS	37
21.260	VALIDITY AND EFFECTIVENESS.....	37
21.263	PRIVILEGES.....	38
21.265	RESPONSIBILITES OF DESIGN ORGANIZATION	38
SUBPART K: AIRCRAFT’S PARTS AND EQUIPMENT		39
21.267	APPLICABILITY.....	39
21.270	COMPLIANCE WITH APPLICABLE REQUIREMENTS	39
21.273	APPROVAL OF AIRCRAFT’S PARTS AND EQUIPMENT.....	39
21.275	SIGNATURE TO AGREE THE AIRCRAFT’S PARTS AND EQUIPMENT ASSEMBLY	39
SUBPART L: (Reserved)		39
SUBPART M: REPAIR		39
21.277	APPLICABILITY.....	39

21.280	ELIGIBILITY	40
21.283	CAPABILITY DEMONSTRATION	40
21.285	REPAIR DESIGN.....	40
21.287	CLASSIFICATION OF REPAIR.....	40
21.290	APPROVAL OF REPAIR DESIGN	40
21.293	MANUFACTURE OF REPAIR KIT	41
21.295	IMPLEMENTATION OF REPAIR	41
21.297	LIMITATIONS.....	41
21.300	FAILURE NOT TO BE REPAIRED	41
21.303	STORAGE OF DOCUMENTATION.....	41
21.305	INSTRUCTIONS FOR CONTINUED AIRWORTHINESS.....	41
21.307	RESPONSIBILITIES AND MARKING.....	42
SUBPART O: TECHNICAL STANDARD AUTHORIZATION		42
21.310	APPLICABILITY.....	42
21.313	ELIGIBILITY.....	43
21.315	CAPABILITY DEMONSTRATION	43
21.317	APPLICATION OF TSO AUTHORIZATION.....	43
21.320	TSO AUTHORIZATION OF AUXILIARY POWER.....	43
21.323	DATA REQUIREMENTS	44
21.325	ISSUANCE OF TSO AUTHORIZATION	44
21.327	PRIVILEGES OF TSO HOLDER.....	44
21.330	RELEASE OF DESIGN AND FUNCTIONS	44
21.335	RESPONSIBILITIES OF TSO HOLDER	45
21.337	APPROVAL OF DEVIATION	45
21.340	DESIGN CHANGES.....	45
21.343	STORAGE OF DOCUMENTATION.....	46
21.345	CAAV INSPECTION.....	46
21.347	VALIDITY AND EFFECTIVENESS.....	46
21.350	TRANSFERABILITY	46
SUBPART Q: IDENTIFICATION OF AIRCRAFT AND AERONAUTICAL PRODUCTS.....		46
21.353	IDENTIFICATION OF AIRCRAFT.....	46
21.355	IDENTIFICATION DATA	47
21.357	IDENTIFICATION OF AIRCRAFT'S PARTS AND EQUIPMENTS.....	47
21.360	IDENTIFICATION OF CRITICAL PARTS	47
21.363	IDENTIFICATION OF PARTS PRODUCED UNDER TSO STANDERD.....	48
APPENDICES		49
APPENDIX 1 TO 21.157 : FORM 52 CONFIRMATION OF AIRCRAFT'S COMPLIANCE.....		49
APPENDICE 2 TO 21.157 : FORM 1 CONFIRMATION OF AIRCRAFT EQUIPMENT AND COMPONENT COMPLIANCE		51
APPENDICE 1 TO 21.197 REGULATION ON EXTENSION AND AMENDMENT OF PRODUCTION CERTIFICATE / DESIGN ORGANIZATION CERTIFICATE OF AIRCRAFT, EQUIPMENT AND PARTS		54
APPENDICE 1 TO 21.347 REGULATION ON TECHICAL STANDARD ORDER AUTHORIZATON – TSO		55

SUBPART A: GENERAL

21.001 APPLICABILITY

- (a) This part prescribes the privileges and responsibilities of organizations, persons or the certificate holder issued in accordance with the provisions as specified in this part.

21.003 DEFINITIONS

- (a) This part uses the following definitions:

Note: Additional aviation-related terms are defined in Part 1 of these regulations.

21.005 ACRONYMS

- (a) The following acronyms are used in this Part:
 - (1) TSO: Technical Standard Order

21.007 AUTHORIZATION TO OTHER PERSONS AND ORGANIZATIONS

- (a) All activities and responsibilities in this Part must be implemented by organizations or all type of certificate holder as specified in this Part. However, the activities and obligations that may be authorized for organizations and persons have legal status with the conditions of authorization and the authorized person must have a written agreement to ensure the obligations are fulfilled.

21.010 FAILURES, MALFUNCTIONS, AND DEFECTS

- (a) Data analysis, investigation and collection system
 - (1) The holder of type certificate, a provisional type certificate, a supplemental type certificate, TSO, Approval of repair or other certificates must have a system of collecting, investigating and analyzing the report and information about failures, malfunctions, defects and occurrences causing effect to flight condition of an aircraft, parts and equipment manufactured under the limitation of type certificate, a provisional type certificate, a supplemental type certificate, TSO, Approval of repair or other certificates. The system data should be sent to the Operator of aircraft, parts and equipment and to competent authorization as specified in other Parts of the Aviation Safety Regulations if required.
- (b) Report to Civil Aviation Administration of Vietnam (CAAV).
 - (1) The holder of a type certificate, a provisional type certificate, a supplemental type certificate, TSO authorization, Approval of repair or other certificates as specified in this Part must report the failures, malfunctions, defects or occurrences of an aircraft, parts and equipment manufactured according to relative certificate to CAAV when aircraft, components and equipment manufactured by it could threaten flight safety.
 - (2) All report must be made according to the forms and guidance of CAAV and sent no later than 72 hours since detection of unsafe status excluding special case.
- (c) Investigation of reported occurrences

- (1) When the occurrences reported according to the regulation at section (b) of this Subpart or the regulation at 21.155(a)(6)(ii) or 21.203(a)(6)(ii) because of a manufacturing or design defects, the holder of a type certificate, a provisional type certificate, a supplemental type certificate, TSO authorization, Approval of repair or other certificates as specified in this Part, or related manufacturer of aircraft, parts and equipment must investigate the defect. The CAAV must be reported the results of its investigation and any action taken or proposed by the manufacturer to correct that defect.
- (2) In case CAAV has the specific requirements on defect correction at Item (1), Section (c) of this Subpart, the holder of a type certificate, a provisional type certificate, a supplemental type certificate, TSO authorization, Approval of repair or other certificates as specified in this Part, or manufacturer must submit the document to CAAV.

21.013 AIRWORTHINESS DIRECTIVE

- (a) The airworthiness directive is issued or recognized by CAAV to implement a task in the aircraft to restore the necessary level of safety when the aircraft safety seems to be reduced or affected.
- (b) CAAV will issue airworthiness directive in case:
 - (1) CAAV defines the aircraft safety occurrence because of defect in aircraft, aircraft engine or propeller, or in any part, or Subpart; and
 - (2) The safety occurrence is able to exist or happen in other aircrafts.
- (c) In case CAAV issues airworthiness directive to unsafe status as specified in section (b) of this Subpart or requires to have specific inspection, the holder of a type certificate, a provisional type certificate, a supplemental type certificate, TSO authorization, Approval of repair or other certificates as specified in this Part must:
 - (1) Propose the corrective action or inspection or both, and submit the detailed proposal to CAAV for approval;
 - (2) After being approved by CAAV, all documents and manuals must be sent to operator or owner of aircraft, equipment and components, the organizations (individuals) must follow this airworthiness directive if required.
- (d) Airworthiness directive includes the following information:
 - (1) Identify and describe unsafe status
 - (2) Identify aircrafts to be effected;
 - (3) Works to be implemented;
 - (4) Implementing time;
 - (5) Effective date of airworthiness directive.

21.015 COMBINATION BETWEEN DESIGN AND MANUFACTURE

- (a) The holder of a type certificate, a provisional type certificate, a supplemental type certificate, TSO authorization, Approval of repair will cooperate with design organization if necessary to ensure:

- (1) Harmonious combination between design and manufacture according the requirement of Subpart 21.135, 21.163 or 21.203; and
- (2) Maintain the airworthiness of aircraft product, components and equipment.

SUBPART B: TYPE CERTIFICATE AND PROVISIONAL TYPE CERTIFICATE

21.017 APPLICABILITY

- (a) This chapter prescribes procedure for the issuance/acceptance of type certificate, provisional type certificate for aircraft and the privileges and responsibilities of the applicant or holder.

21.020 ELIGIBILITY

- (a) Any organization who demonstrated or has demonstrated its capability according to the regulation of Subpart 21.023 is eligible to apply for type certificate, provisional type certificate according to the conditions specified in this Chapter.

21.023 CAPABILITY

- (a) The applicant must have design organization certificate to be issued according to the regulation in Chapter J of this Part in order to demonstrate its capability.
- (b) In case of not meeting the requirements at Section (a) of this Subpart, the applicant could require CAAV to permit the use of design experiences, human resources and detailed work in order to ensure the compliance with this Subpart's regulations for following types:
 - (1) Aircraft or aircraft with superlight propellers, glider or motor glider, balloon;
 - (2) Small aircraft must meet the following criteria:
 - (i) A piston engine, open circulation cooling, max take-off power less than 250 horsepower
 - (ii) Normal configuration;
 - (iii) Normal structure and material;
 - (iv) Flight according to VFR under no ice condition;
 - (v) Max 4 seats including pilot and maximum take-off weight less than 3000 lb (1361kg);
 - (vi) Flight with no cabin pressure increase;
 - (vii) Non-power assisted control system;
 - (viii) Making basic loops in the air with overload coefficient of +6/-3;
 - (3) Piston engine;
 - (4) Engine or propellers to be granted type certificate according to airworthiness standards for motor glider;
 - (5) Propeller with fix or variable proximity sensor

21.025 CONDITION ON ISSUING AND RECOGNIZING TYPE CERTIFICATE

- (a) The type certificate is issued and recognized when:

- (1) Aircraft, engine and propeller are in conformity with the drawing, operation capability and design characteristics to meet the requirements of applicable airworthiness standards;
 - (2) The test is implemented well according to the requirements for approval of aircraft, engine and propeller as specified at applicable airworthiness standards;
 - (3) The applicants make full payment of fees according to the regulations.
- (b) The applicant will bear all fees during the inspection period for issuance and recognition of type certificate.
- (c) The application for issuing type certificate, provisional type certificate must be done according to form and instruction of CAAV, namely:
- (1) Drawing of 03 aircraft projections, initial basic parameters with proposed characteristics and operation limitation;
 - (2) General drawing to describe the design, operation characteristics and operation limitation of engine or propeller;
 - (3) Wiring diagrams
 - (4) Load analysis
 - (5) Maintenance Review Board Report (MRBR) of manufacturer;
 - (6) Maintenance Planning Document (MPD), including corrosion prevention and control program, aircraft structural maintenance program;
 - (7) Master Minimum Equipment List (MMEL);
 - (8) Noise certificate;
 - (9) Radio certificate;
 - (10) A copy of following documents:
 - (i) Aircraft Flight Manual (AFM);
 - (ii) Aircraft Maintenance Manuals (AMM);
 - (iii) Engine Maintenance Manuals;
 - (iv) Propeller Maintenance Manuals;
 - (v) Auxiliary engine maintenance manuals;
 - (vi) Illustrated Parts Catalogs (IPC)
 - (vii) Practical Standards;
 - (viii) Structural Repair Manual (SRM);
 - (ix) Structural Significant Item (SSI);
 - (x) Loading manual;
 - (xi) Aircraft weight and balance manual;
 - (xii) Non-destructive Testing (NDT).

21.030 SPECIAL CONDITIONS

- (a) CAAV considers that special technical specification and condition are applicable to product when current airworthiness standards do not provide an adequate or appropriate safety standard in case:

- (1) Completely new product or product with unusual design characteristics in comparison with actual design as basis of current airworthiness standards;
 - (2) Completely different using purpose;
 - (3) Experiences from similar products under operation or product with similar design shows that unsafe conditions may occur.
- (b) The special conditions include level of safety equivalent to that established under these regulations of this Part to ensure the necessary aviation safety.

21.033 BASIS FOR ISSUING TYPE CERTIFICATE

- (a) The basis for issuing type certificate or provisional type certificate must be published and include:
 - (1) The airworthiness standards that are effective on the date of application for that certificate mentioned in Parts 3 unless:
 - (i) Otherwise specified by CAAV; or
 - (ii) The applicant has elected compliance with later effective amendments or under the requirements at Item (c) and (d) of this Subpart.
 - (2) any special conditions imposed under section (a) of Subpart 21.030
- (b) An application for type certification of aircrafts and aircraft above 5700kg is effective for 5 years, and an application for any other type certificate is effective for 3 years, unless an applicant shows, before the application lapses, that the aircraft requires a longer period of time for design, development, and testing.
- (c) In case type certificate is refused to issue or is not issued in due time as mentioned at Item (b); the applicant may:
 - (1) File a new application for a type certificate and comply with all the provisions of Section (a); or
 - (2) File for an extension of the original application and comply with the applicable airworthiness requirements of these regulations that were effective on a date, to be selected by the applicant, not earlier than the date which precedes the date of issuance of the type certificate by the time limit established under section (b) for the original application.
- (d) If an applicant elects to comply with an amendment to these regulations that is effective after the filing of the application for a type certificate, the applicant must also comply with any other amendment or incorporated matter that CAAV considers is directly related to the application.

21.035 ENVIRONMENT PROTECTION REQUIREMENT AND APPROVAL FEATURES

- (a) The noise requirements for issuing Type certificate for aircraft are prescribed according to the regulations of Chapter 1, Appendix 16, volume I, Part II of Chicago convention, and:
 - (1) For subsonic jet aircraft: volume I, part II, chapter 2, 3 and 4;
 - (2) For propeller aircraft: volume I, part II, chapter 3, 4, 5, 6 and 10;
 - (3) For helicopter: volume I, part II, chapter 8 and 11;
 - (4) For supersonic aircraft: volume I, part II, chapter 12.

- (b) The requirements on exhaust for issuing type certificate for aircraft and engine are prescribed at Appendix 16 of Chicago convention:
 - (1) Fuel exhaust prevention: volume II, part II, chapter 2;
 - (2) Exhaust of jet engine and propeller engine used for subsonic speed: volume II, part II, chapter 2;
 - (3) Exhaust of jet engine and propeller engine used for supersonic speed: volume II, part III, chapter 3;
- (c) Based on Vietnam Civil aviation regulations or international regulations to be recognized in Vietnam, the applicant must show that compliance with the noise regulations and the regulations at Item (a) and (b) of this Subpart are met.

21.037 CHANGES REQUIRING A NEW TYPE CERTIFICATE

- (a) In case a major change is made in the design, power, propulsion, weight of the aircraft in comparison with the characteristics in the type certificate and CAAV found that a substantially complete investigation of compliance with the requirements applicable is necessary, a person who proposes to make a change may apply to CAAV for a new type certificate. Re-applying procedure is similar to new application of type certificate.

21.040 COMPLIANCE WITH BASIS FOR ISSUING TYPE CERTIFICATE AND ENVIRONMENT PROTECTION REQUIREMENTS

- (a) The applicant of type certificate or provisional type certificate shows that compliance with basis for issuing type certificate and environment protection requirements are met. The applicant must provide the evidence of compliance to CAAV.
- (b) The applicant must declare that compliance with basis for issuing type certificate and environment protection requirements are demonstrated.
- (c) If the applicant has design organization certificate, the declaration at Item (b) must be done according to the regulation of Chapter J.

21.043 ISSUANCE OF TYPE CERTIFICATE

- (a) CAAV will issue type certificate for aircraft if the applicant meets the following conditions:
 - (1) Demonstrating the capability to meet the requirements of Subpart 21.023;
 - (2) Having statement of conformity according to the regulations of Section b Subpart 21.040;
 - (3) Demonstrating that:
 - (i) The approved product meets the basis for issuing type certificate and environment protection requirements according to Subpart 21.033 and 21.035;
 - (ii) The airworthiness standards that are not be complied must be supplemented by equivalent safety features;
 - (iii) No feature could cause a threat to the safety of product when it is used for right purpose;

- (iv) The applicant has a statement in written to compliance with the regulations of Subpart 21.060
- (4) For type certificate for aircraft, engine or propeller or both if installed at that type of aircraft the equivalent type certificate must be available in accordance with the regulations of this Part.

21.044 SUSPENSION OF TYPE CERTIFICATE ¹

a. When the CAAV takes action in accordance with its established procedures to suspend in whole or in part a Type Certificate for an aircraft, engine or propeller type, it shall immediately:

1. notify Contracting States of the suspension; the time period, if known, that the suspension is in

force; the cause of the suspension; and any recommended action to be undertaken if the nature of the suspension affects the airworthiness of the affected aircraft, engine or propeller type; and

2. establish with the State of Manufacture, if other than the State of Design, any actions necessary to address their respective airworthiness responsibilities under the agreement or arrangement established in accordance with 2.4.4 of this part.

b. A Contracting State that issued a Type Certificate for an aircraft, engine or propeller type on the basis of the Type Certificate issued by the, shall immediately notify the CAAV of a suspension originated in respect of its equivalent Type Certificate.

c. During the period of suspension notified in paragraph (a) and (b) this Airticle, the CAAV shall continue to fulfil its assigned obligations on continuing airworthiness under Part 4 and Part 20 Vietnam Aviation Regulations

d. The CAAV shall notify Contracting States and the State of Manufacture, if other than the CAAV, on a regular basis the status of the suspension and reinstatement of the suspended Type Certificate.

21.045 ISSUANCE OF PROVISIONAL TYPE CERTIFICATE

- (a) In case aircraft does not meet the requirements at Item (3) section (a) Subpart 21.043, the applicant of type certificate may be issued a provisional type certificate by CAAV after:
 - (1) Complying with CAAV's basis for issuing type certificate and ensuring safety for aircraft's using purpose and environment protection requirements;
 - (2) The applicant has a statement of conformity to the regulations of Subpart 21.060 in written.
- (b) Engine or propeller of aircraft are also considered as aircraft's parts and must:
 - (1) Have equivalent type certificate in accordance with the regulations of this Part; or
 - (2) Demonstrate compliance with necessary approval features to ensure flight safety for aircraft.

¹ This content is revised according to Item 1, Appendix XII to Circular 56/2018/TT-BGTVT dated 30 Jan 2019.

Note: see Chapter B Part 3 regulations on order, procedure on issuance and recognition of type certificate for aircraft.

21.046 REVOCATION OF TYPE CERTIFICATE

a. The **CAAV** shall establish procedures for the revocation of a Type Certificate when the organization responsible for the type design surrenders or abandons the Type Certificate. The procedures, at a minimum, shall include:

1. notification to all Contracting States of an intent to revoke a Type Certificate and the proposed termination of the production approval under 2.4 of this part; and

2. consultation with States of Registry for the collection, identification and establishment of supplemental airworthiness requirements considered necessary for the continued airworthiness of the candidate orphan aircraft type.

b. Except for reasons concerning the immediate safety of an aircraft type, the CAAV shall not unduly revoke a Type Certificate without providing ample notice and guidance to States of Registry that will be assuming ultimate responsibility for the continued airworthiness of orphaned aircraft in their civil register.

c. The CAAV shall notify Contracting States, including the State of Manufacture if other than the CAAV, of the revocation of a Type Certificate and the effective date on which it ceases to be the designated State of Design.

21.047 TYPE DESIGN

(a) The type design consists of the following:

- (1) The drawings and specifications, a listing of those drawings and specifications, necessary to define the configuration and the design features of the product shown to comply with type acceptance conditions and environment protection requirements;
- (2) Information on materials, processes, manufacture, assembly necessary to define the conformity of the products;
- (3) The airworthiness limitations section of the instructions for continued airworthiness as required by the applicable airworthiness standards;
- (4) Any other data necessary to allow, by comparison, the determination of the airworthiness, noise, fuel exhaust, air exhaust (if necessary) of later products of the same type.

(b) Each type design must be fully identified.

21.050 INSPECTION AND TESTS

(a) Each applicant must make all inspections and tests necessary to determine compliance with basis for issuing type certificate and environment protection requirements.

(b) Before each test according to the regulations of Section (a), the applicant must determine:

(1) For test sample:

- (i) That materials and processes conform to the specifications in the type design;
- (ii) That parts of product conform to the drawings in the type design;

- (iii) That the manufacturing processes, construction and assembly conform to those specified in the type design.
- (2) That there are full test equipment and tools for testing. These tools must be gauged.
- (c) CAAV will make necessary inspection to determine that the applicant complies with the regulations of Section (b) of this Subpart.
- (d) CAAV will review the reports, make inspection and implement or witness flight test and ground test necessary to determine the accuracy of the applicant's commitment submitted to CAAV according to Item (b) Subpart 21.040 and insist that no any specifications could cause the unsafety to using purpose according to the regulations of type certificate.
- (e) For the test to be done or witnessed by CAAV mentioned at Section (d):
 - (1) The applicant must submit a commitment to comply with the regulations at Section (b) to CAAV; and
 - (2) During a commitment submitting period to CAAV, the applicant will not be permitted to make any change to the test for the product and equipment if that change may be effected to the commitment.

21.053 FLIGHT TESTS

- (a) The flight test for issuing type certificate must be made according to the regulations on flight test.
- (b) The applicant must make all flight tests that CAAV considers are necessary:
 - (1) To determine compliance with the applicable basis for issuing type certificate and environment protection requirements; and
 - (2) To determine whether there is reasonable assurance that the aircraft, its components, and its equipment are reliable and function properly except gliders or motor gliders and except aeroplanes of 2722 kg or less
- (c) The flight tests prescribed in Section (2) item (b) must:
 - (1) For aircraft incorporating turbine engines of a type not previously used in a type certificated aircraft - at least 300 hours of operation with a full complement of engines that conform to a type certificate (engine); and
 - (2) For all other aircraft - at least 150 hours of operation.

21.057 TYPE CERTIFICATE

- (a) Type certificate and provisional type certificate must include the type design, the operating limitations, the type certificate data sheet, airworthiness standards, exhaust standards, applicable basis of type certificate, environment protection requirements to be accepted by CAAV and any other conditions and limitations for the product in accordance with approval requirements and environment protection requirements. Moreover, type certificate and provisional type certificate must include the type certificate data sheet for noise. The type certificate data sheet of engine must include the documents on compliance with standards on exhaust.

21.060 RESPONSIBILITIES OF TYPE CERTIFICATE HOLDER

- (a) The holder of type certificate or provisional type certificate must:

- (1) Comply with the regulation at Subpart 21.010, 21.013, 21.015, 21.067, 21.070 and 21.073 and meet the requirement on legal entity at Subpart 21.020;
- (2) Identify the mark of product according to regulation of Chapter Q.

21.063 TRANSFERABILITY

- (a) The type certificate and provisional type certificate may be transferred to third party if transferee has ability to implement the responsibilities as prescribed at Subpart 21.060 and, with purpose of transfer, demonstrate the approval agreement according to the requirements at Subpart 21.023.

b.2 CAAV shall establish procedures for transferring Type Certificates (to continuously comply with the approved designs of aircraft, engines, propellers with appropriate flight eligibility requirements.) for the following cases:

1. The transfer of which Vietnam is still a State of Design
2. Transfer to another State of Design

c. In case Vietnam is transferred as a State of Design, CAAV shall issue or reissue a Type Certificate in accordance with Article 21.043 of this Part.

d. Where the State of Manufacture for production of aircraft, engines, and propellers is not a State of Design (Vietnam), CAAV shall have an agreement with State of Manufacture to ensure that the Production organization has the right to access the data for aircraft type, engine design, propellers and responsibilities for the design, manufacture, and maintenance of aircraft airworthiness.

đ. CAAV must notify the States concerned about the transfer of the Type Certificate after it has been transferred to another State.

21.065 VALIDITY AND EFFECTIVENESS

- (a) The type certificate and provisional type certificate are only issued once and remains in force if:
 - (1) The holder complies with the regulations of this Part; and
 - (2) The certificate is not returned or revoked.
- (b) In case decision on returning and collecting certificate is issued by CAAV, the certificates must be returned to CAAV.

21.067 STORAGE OF DOCUMENTATION

- (a) The holder of type certificate and provisional type certificate must make the design, drawings, and test report including tested product inspection available for examination by CAAV upon the request of CAAV.

21.070 INSTRUCTION MANUAL

- (b) The holder of type certificate and provisional type certificate must prepare, maintain and update the original of documents as required in regulation on type certificate and environment protection requirements for products and must submit a copy upon the request of CAAV.

21.071 ORDER, PROCEDURE, RECOGNITION OF TYPE CERTIFICATE³

a. Within 10 months since the application of type certificate is received, CAAC will make necessary test and inspection to issue type certificate for an aircraft, aircraft engine and propeller to be designed and manufactured in Vietnam, namely:

1. To check whether the application of type certificate is complete;
2. To define the airworthiness standards for an aircraft, aircraft engine and propeller in order to issue the type certificate for this aircraft, aircraft engine and propeller;
3. To verify drawing data, a listing of those drawings and specifications, necessary to define the configuration and the design features of the product shown to comply with the airworthiness standards including the information on materials, processes, manufacture, assembly necessary to define the conformity of the products;
4. To verify the airworthiness limitations section as required by the applicable airworthiness standards;
5. To define environment protection requirements applicable to aircraft, aircraft engine and propeller;
6. To implement or hire an independent organization to have inspection, test and flight test necessary to establish whether the aircraft, aircraft engine and propeller comply with the applicable requirements of these regulations.

b. Within 5 months since the application of type certificate is received, CAAV will make necessary inspection and test to recognize the type certificate for aircraft, aircraft engine and propeller initially operated in Vietnam, namely:

1. To check whether the application of type certificate is complete;
2. To consider for recognition of airworthiness standards for aircraft, aircraft engine and propeller in accordance with Appendix 8, Chicago convention;
3. To verify the airworthiness limitations section as required by the applicable airworthiness standards;
4. To define environment protection requirements applicable to aircraft, aircraft engine and propeller;
5. To consider for recognition of test, inspection and flight test results establish whether the aircraft, aircraft engine and propeller complies with the applicable requirements of these regulations.

21.073 INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

- (a) The holder of type certificate or provisional type certificate must furnish at least one set of complete Instructions for Continued Airworthiness including data and instruction, prepared in accordance with the regulations on issuing type certificate, to the owner of each or several types of aircraft, aircraft engine, or propeller upon its delivery, or upon issuance of the first standard certificate of airworthiness for the affected aircraft, whichever occurs later, and thereafter, on request by a person required by these regulations to comply with any of the terms of the instructions, give them to the person. The documents and instructions for airworthiness relating to overhaul or periodic maintenance may be issued after the product puts into operation but before the product gains the operating life or related flight hours.

³ This content is revised according to Item 2, Appendix XII to Circular 56/2018/TT-BGTVT dated 30 Jan 2019.

- (b) In addition, changes to the Instructions for Continued Airworthiness shall be made available to the operators and who is required by these regulations to comply with any of those instructions. The program on change allocation method must be submitted to CAAV.

SUBPART C: (BLANK)

SUBPART D: CHANGES TO TYPE CERTIFICATES

21.075 APPLICABILITY

- (a) This chapter prescribes the approval procedure of changes in the type design and type certificate, the privileges and responsibilities of applicant or approval holder. Type certificate in this Chapter includes type certificate and provisional type certificate.

21.077 CLASSIFICATION OF CHANGES IN TYPE DESIGN

- (a) Changes in type design are classified as:
 - (1) A minor change is one that has no appreciable effect on the weight, balance, structural strength, reliability, operational characteristics, noise, fuel discharge and exhaust affecting the airworthiness of the product;
 - (2) Major changes are all other changes than those in above item (1);
 - (3) Major and minor changes must be approved in accordance with regulation at Subpart 21.085 or 21.087 and fully identified.

21.080 ELIGIBILITY

- (a) The type certificate holder is eligible to apply for approval of a major change in the type design according to the regulation of this Chapter; in all other case, the application of approval of a major change must comply with regulation of Chapter E.
- (b) The person who has legal right to type certificate is eligible to apply for approval of minor change in the type design according to the regulation of this Chapter.

21.083 APPLICATION FOR APPROVAL

- (a) A application of change approval in the type design is sent in person or by post to CAAV at least 6 month before expected operation day. It consists of:
 - (1) A description of change that shows:
 - (i) Parts of type design and approved instructions to be effected by those changes; and
 - (ii) Approval features, additional environment protection requirements and design change must comply with the regulation of Subpart 21.090.
- (b) To consider whether it is necessary to make the inspection to check the compliance with approved specifications and applicable environment protection requirements.

21.085 MINOR CHANGE

- (a) Minor changes in the type design must be classified and approved by CAAV or design organization approved or accepted by CAAV.

21.087 MAJOR CHANGE

- (a) An applicant for approval of major change in the type design must:
 - (1) Submit with the application substantiating data and necessary descriptive data for inclusion in the type design to CAAV;
 - (2) Demonstrate changed product to comply with approved specification and environment protection requirements in accordance with the regulation of Subpart 21.090;
 - (3) Show that the compliance with applicable type certificate requirements and environment protection requirements has been demonstrated and the evidences will be sent to CAAV; and
 - (4) If the applicant of approval of major change has a certificate of design organization, the declaration mentioned on Item (a)(3) must be subject to Chapter J;
 - (5) Comply with Subpart 21.050 and 21.053.
- (b) Approval of a major change in the type design of an aircraft engine is limited to the specific engine configuration upon which the change is made.

Note: For all changes in aircraft with minor and major changes in the type certificate that do not need to apply for new type certificate, the owner or operator of aircraft must apply for the supplemental type certificate to CAAV or design nation approving type certificate for aircraft or aircraft registration nation. The applicant must comply with procedure on issuing supplemental type certificate in accordance with that nation's regulations (Chapter B Part 3).

21.090 APPROVAL FEATURES AND ENVIRONMENT PROTECTION REQUIREMENTS

- (a) The applicant of approval must demonstrate that:
 - (1) The product after change complies with the airworthiness standards in effect on the date of the application for the change; and
 - (2) The product after change complies with environment protection requirements in accordance with the regulation of Subpart 21.035.
- (b) In case of not meeting the regulation of Section (a) of this Subpart, the applicant may demonstrate the changed product's compliance with the amendment of airworthiness standards at Section (a) in previous time and approval features that is directly related in the view of CAAV. However the airworthiness standards must not be older than the applicable standards on the date of the issuance of type certificate. The applicant may use this standard in case if:
 - (1) CAAV realizes that the change is not important. In order to define the importance of change, CAAV shall consider the change in the relation with old design changes and all amendment of approval features in the type certificate. The changes that meet one of the following criteria shall be considered as an major change:
 - (i) Change of general configuration and manufacture principle
 - (ii) Hypothesis for approval of change is not valid.

- (2) Each area, system, part or equipment is considered by CAAV not to be effected from change.
 - (3) Each area, system, part or equipment under the effect of change that CAAV realizes that their compliance with the airworthiness standards according to the regulation of Sections (a) does not make significant contribution to the product's level of safety which shall be changed.
- (c) The applicant of change in the aircraft excluding propeller aircraft with max weight of 2722 kg or free-turbine engine propeller aircraft with max weight of 1361 kg, may demonstrate the changed product's compliance with the approval conditions in the type certificate. In case of an major change in an area, CAAV shall suspend the compliance with amendment of approval conditions in the type certificate (in effect on the date of application) and with approval features to be considered as direct relation by CAAV unless CAAV realizes that this compliance does not make significant contribution to level of safety of the changed product.
 - (d) In case the airworthiness standards in effect on the date of application do not meet the necessary standards for change, the applicant may comply with special conditions as specified at Subpart 21.030, in order to ensure the safety level equivalent to the level in the airworthiness standards.
 - (e) The application of change approval of large aircraft or large propeller aircraft is valid for at least 5 years. The application of change approval of all other aircraft is valid for at least 3 years. In case the changes have not been approved or failed to approve, the applicant may:
 - (1) Re-file the application of change approval of type certificate and comply with all regulations at Section (a) applicable for previous application; or
 - (2) Make request for extend the first application and comply with all regulations at Section (a) in effect on the date (to be selected by the applicant) after the approval deadlines of first application.

21.093 APPROVAL OF CHANGE

- (a) The applicant of approval of major change in the type design is entitled to the approval from CAAV after:
 - (1) Submitting the declaration as prescribed at Item (3), Section (a) Subpart 21.087.
 - (2) Demonstrating that:
 - (i) The changed product meets the applicable approved specifications and environment protection requirements as prescribed at Subpart 21.090.
 - (ii) The airworthiness standards which have not been complied must be supplemented with relevant safety features; and
 - (iii) No feature may cause a threat to safety of product when it is used for right purpose;
- (b) Minor change in the type design is only approved according to the regulation of Subpart 21.085 if it is demonstrated that changed product has the features as approved according to the regulation of Subpart 21.090.

21.095 STORAGE OF DOCUMENTATION

- (a) The change approval holder must keep documents on changes, information about the design, drawings, and test report including tested product inspection available for examination by CAAV upon the request of CAAV.

21.097 INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

- (a) The holder of approval of minor change in the type design must furnish one set of complete Instructions for Continued Airworthiness of product with minor change, prepared in accordance with the regulations on issuing type certificate, to the owner of each or several types of aircraft, aircraft engine, or propeller upon its delivery, or upon issuance of the first standard certificate of airworthiness for the affected aircraft, whichever occurs later, and thereafter, on request by a person required by these regulations to comply with any of the terms of the instructions, give them to the person.
- (b) In addition, changes to the Instructions for Continued Airworthiness shall be made available to the operators who are using the changed product and person who is required by these regulations to comply with any of those instructions.

21.100 RESPONSIBILITIES AND MODEL REGISTRATION

- (a) The holder of approval of minor change in the type design must:
 - (1) Comply with the Responsibilities as prescribed in Subpart 21.015, 21.097; and
 - (2) Register the model according to the regulations of Subpart 21.357.

SUBPART E: SUPPLEMENTAL TYPE CERTIFICATES

21.103 APPLICABILITY

- (a) This chapter prescribes the approval procedure of major changes in the type design in accordance with the supplemental type certificate, establishes the privileges and responsibilities of applicant or supplemental type certificate holder.

21.105 ELIGIBILITY

- (a) Any organizations, individuals who demonstrated or have demonstrated their capability according to the regulation of Subpart 21.107 are eligible to apply for approval of supplemental type certificate according to the regulations of this Chapter.

21.107 CAPABILITY DEMONSTRATION

- (a) Any applicant of approval of supplemental type certificate must have design organization certificate issued by CAAV according to the regulation of Chapter J.
- (b) In case of no design organization certificate, the applicant may request CAAV for using the replaced procedure to demonstrate its capability but must clearly give the design experiences, human resources and work orders.

21.110 APPLICATION OF SUPPLEMENTAL TYPE CERTIFICATE

- (a) The application must consist of description of changes and define the re-inspection according to the regulation of Subpart 21.083. The application must show that the information for re-inspection is complete and supplied by the applicant or through the agreement with the type certificate holder.

21.113 COMPLIANCE DEMONSTRATION

- (a) The applicant must comply with the regulations of Subpart 21.087.

21.115 ISSUANCE OF SUPPLEMENTAL TYPE CERTIFICATE

- (a) The applicant will be granted a supplemental type certificate by CAAV if the applicant:
 - (1) Complies with the regulations of Section (a) Subpart 21.093;
 - (2) Demonstrates its capability according to the regulations of Subpart 21.107;
 - (3) The applicant of supplemental type certificate and the holder of type certificate have agreed according to the regulations of Section (a) Subpart 21.110:
 - (i) The supplemental type certificate holder has not technically protested the information submitted to CAAV according to the regulations of Subpart 21.083; and
 - (ii) The type certificate holder agrees to cooperate with the supplemental type certificate holder to implement its responsibilities in the airworthiness standards after the change is approved in accordance with the regulations of Subpart 21.040 and 21.123.

21.117 TRANSFERABILITY

- (a) The supplemental type certificate may be transferred to organizations, persons having ability to implement the responsibilities as prescribed at Subpart 21.123 and they have to demonstrate their capability to meet the requirements at Subpart 21.107.

21.120 CHANGE OF A PART OF PRODUCT UNDER THE SUPPLEMENTAL TYPE CERTIFICATE

- (a) The minor change in a product part under the supplemental type certificate is classified and approved according to Chapter D.
- (b) Each major change in a product part under the supplemental type certificate is approved in a separate supplemental type certificate according to Chapter D.
- (c) In addition, each major change in a product part under the supplemental type certificate that is submitted to CAAV by the supplemental type certificate holder may be approved as a change of current supplemental type certificate.

21.123 RESPONSIBILITIES AND MODEL REGISTRATION

- (a) The supplemental type certificate holder must:
 - (1) Implement the responsibilities:
 - (i) The regulations of Subpart 21.010, 21.013, 21.015, 21.095, 21.127 and 21.130;

- (ii) Cooperate with the type certificate holder according to the regulations of Item (2), Section (a) Subpart 21.115;
- (iii) Meet the requirements at Subpart 21.107.
- (iv) Register model according to the regulations of Section (a) Subpart 21.357.

21.125 VALIDITY AND EFFECTIVENESS

- (a) A supplemental type certificate is time-unlimited term certificate and is only valid when:
 - (1) The holder always complies with the regulations of this Part; and
 - (2) The certificate is not returned or revoked according to the management procedure of CAAV.
- (b) In case of return or revoke, the certificate must be given back to CAAV.

21.127 INSTRUCTION MANUAL

- (a) The supplemental type certificate holder must prepare, maintain and update the original of documents as required for issuing type certificate and environment protection requirements for product. The amendment must include the changes under the supplemental type certificate and must submit a copy upon the request of CAAV.

21.130 INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

- (a) The holder of supplemental type certificate for aircraft, aircraft engine, or propeller must furnish at least one set of complete Instructions for Continued Airworthiness including data and instruction, prepared in accordance with the regulations on issuing type certificate, to the owner of each or several types of aircraft, aircraft engine, or propeller upon its delivery, or upon issuance of the first standard certificate of airworthiness for the affected aircraft, and thereafter, on request by a person required by these regulations to comply with any of the terms of the instructions, give these change of instruction to the person. The documents and instructions for airworthiness relating to overhaul or periodic maintenance may be issued after the product puts into operation but before gained the operating life or flight hours.
- (b) In addition, changes to the Instructions for Continued Airworthiness shall be made available to the operators who are using the product under the supplemental type certificate and person who is required by these regulations to comply with any of those instructions. The program on change allocation method must be submitted to CAAV.

SUBPART F: PRODUCTION BY MANUFACTURER WITHOUT CERTIFICATE

21.133 APPLICABILITY

- (a) This chapter prescribes the demonstrating procedure on conformity to design data of aircraft, equipment and parts to be manufactured by manufacturer without the certificate of manufacturer in accordance with the regulation of Chapter G.
- (b) This chapter prescribes the responsibilities of manufacturer of aircraft, equipment and parts according to the regulations of this Chapter.

21.135 ELIGIBILITY

- (a) Any legal organizations, individuals are eligible to apply for demonstration of conformity of each aircraft, equipment and components according to the regulations of this Chapter in case of
 - (1) Having or submitting the application of design approval of those aircraft, equipment and components;
 - (2) Ensuring the tight combination between manufacture and design through the agreement with the applicant, or the design approval holder.

21.137 APPLICATION

- (a) The application must consist of:
 - (1) Evidence documents:
 - (i) The issuance of certificate of manufacturer according to the regulations of Chapter G is inappropriate (or not compatible); or
 - (ii) The certificate or approval of aircraft's equipment and components according to the regulations of this Chapter is necessary while certificate of manufacturer is awaited for approval according to the regulations of Chapter G.
 - (2) Summary as required at Item (2) Section (a) Subpart 21.140.

21.140 LETTER OF AGREEMENT

- (a) The applicant who is demonstrated the conformity of aircraft's product, equipment and parts according to the regulations of this chapter shall be issued the letter of agreement within 15 days after:
 - (1) Establishing the manufacture process inspection system to ensure each product, parts or equipment in conformity to design data and in a condition of safe operation.
 - (2) Providing the documents with the content of:
 - (i) A description of manufacture process inspection system according to the regulations of Section (a);
 - (ii) A description of mean of manufacture process inspection system;
 - (iii) A description of test according to the regulations of Subpart 21.150 and Subpart 21.153 and name of authorized persons for above purpose as mentioned at Section (a) Subpart 21.157.
 - (3) Demonstrating the capability of assistance according to the regulations of Subpart 21.010 and Item (4) Section (a) Subpart 21.155.

21.143 VIOLATIONS

- (a) The violation of compliance with applicable requirements of this Part (attached evidences) is classified as follows:
 - (1) Level of violation 1: no compliance with the regulations of this Parts leads to no control of compliance with design data and causes the unsafety of aircraft;
 - (2) Level of violation 2: no compliance with the regulations of this Part but not level 1;

- (3) Level of violation 3: violations to be caused by objective evidences and to have the potential issues to cause no compliance as mentioned at Item (1) and (2).
- (b) After receiving the notice of violation:
 - (1) For level of violation 1: the holder of letter of agreement issued by CAAV shall make corrective action to meet the requirement of CAAV no later than 21 days from written notice receiving date;
 - (2) For level of violation 2: CAAV shall agree with the implementation of corrective action for a period but not over 6 months. In some case and dependent on the violation, CAAV shall extend 6 month term if the corrective plan is agreed and meets the requirements of CAAV;
 - (3) For level of violation 3: not require the holder of letter of agreement to have immediate corrective action.
- (c) For violation 1 or 2, the letter of agreement may be restricted a part or all certificate, suspended or revoked the certificate. The holder of letter of agreement shall be notified the restriction, suspension or revoke of the letter quickly.

21.145 VALIDITY AND EFFECTIVENESS

- (a) The letter of agreement is valid for a year and remains in force unless:
 - (1) The holder of letter of agreement does not show the compliance with the requirements of this Chapter; or
 - (2) It seems that the manufacturer could not maintain the effective production inspection system of aircraft's equipment and parts as specified in the letter of agreement; or
 - (3) The manufacture does not meet the requirements of Subpart 21.135;
 - (4) The letter of agreement is returned or revoked or expired.
- (b) In case of return, revoke or expiry, the letter of agreement must be given back to CAAV.

21.147 INSPECTION SYSTEM OF PRODUCTION PROCESS

- (a) The production inspection system according to the regulation of Subpart 21.140 must define:
 - (1) Input materials, and bought or subcontracted parts, used in the finished product comply with the specifications in the applicable design data;
 - (2) Input materials, and bought or subcontracted parts in conformity with model and part number;
 - (3) Processes and assembly affecting the quality and safety of the finished production accordance with acceptable specifications;
 - (4) Design changes, including material substitutions, are approved according to Chapter D or E and are controlled before being incorporated in a finished product.
- (b) The production inspection system according to the regulation of Subpart 21.140 must provide for the following:

- (1) Inspecting parts and components during production for conformity with the type design data at points in the process where accurate determinations can be made;
- (2) Suitable storage and adequate protection of materials subject to damage and deterioration;
- (3) Ensuring that current design drawings are readily available to manufacturing and inspection personnel, and used when necessary;
- (4) Segregating, identifying, marking and disposing of rejected materials and parts in a manner that precludes installation in the finished product;
- (5) Any materials and parts that are withheld because of deviation from design data or specifications, and that are to be considered for installation in a finished product must be reinspected by technical and manufacture processes approved by CAAV. When materials and parts determined to be serviceable, they must be marked and reinspected if rework or repair is necessary. If the materials and parts are rejected, they must be marked and removed to avoid the mix up of finished product;
- (6) The inspection records must be retained and identified with the finished product or equipment where practicable. Those documents must be kept in order to give the necessary information to ensure airworthiness standards of the product.

21.150 TESTS: AIRCRAFT

- (a) A aircraft manufacturer according to the regulations of this Chapter must establish a ground and flight test procedure and complies with Item (a) Subpart 21.140.
- (b) Each production flight test procedure must include the following:
 - (1) An operational check of controllability;
 - (2) A specifications check (using normal instruments);
 - (3) An operational check of each part or system of aircraft;
 - (4) A determination that all instruments are properly marked, and that all placards and required flight manuals are installed after flight test;
 - (5) A check of the operational characteristics of the aircraft on the ground;
 - (6) A check on any other items peculiar to the aircraft being tested.

21.153 TESTS: AIRCRAFT ENGINES AND PROPELLERS

- (a) In order to demonstrate the compliance with the regulations of Section (a) Subpart 21.140, each person manufacturing aircraft engines and propellers according to the regulations of this Chapter must give an operational test of each engine and variable proximity sensor propeller according to the regulations issued by type certificate holder to determine if it operates properly throughout the normal range of operation.

21.155 RESPONSIBILITIES OF MANUFACTURER

- (a) The manufacturer of aircraft, equipment or aircraft part in accordance with this chapter shall have responsibilities to:

- (1) Prepare the aircraft's product, equipment and parts for inspection;
- (2) Keep the technical data and drawings at manufacture site to define the conformity of the product to the applicable design data;
- (3) Maintain process inspection system to ensure the conformity of each product to design date and safe operation;
- (4) Assist the holder of type certificate, provisional type certificate and design organization certificate to maintain the airworthiness of aircraft's product, equipment and parts;
- (5) For safe purpose, the internal reporting system should be established and maintained to collect and assess the incident report in order to know the bad situation or weakness. This system includes the assessment on incident and announcement of related information;
- (6) Requirement on report of manufacturer:
 - (i) Inform the holder of type certificate, provisional type certificate and design organization certificate of defect of aircraft's product, equipment and parts in comparison with design date after putting into operation and cooperate with the above certificate holder to investigate the defects that may cause the unsafety;
 - (ii) Report to CAAV for defects to cause unsafety as mentioned at Item (1). The reports must be done according to the form and guidance of CAAV as specified at Subpart 21.010;
 - (iii) If the manufacturer is a supplier of other manufacturer, the manufacturer must inform that manufacturer of defects of aircraft's product, equipment and parts in design data after putting into operation.

21.157 STATEMENT OF COMPLIANCE

- (a) Each manufacturer of product, equipment and parts according to the regulations of this Chapter must give a statement of conformity, in a form 52 of CAAV for each aircraft and in a form 1 for other product, equipment and parts. This statement must be signed by a person who holds a responsible position in the manufacturing organization and has been authorized by the manufacturer to sign the statement.

Note: see Appendix 1 to 21.157 regulation on form 52.

Note: see Appendix 2 to 21.157 regulation on form 1.

- (b) The statement of conformity must include:
 - (1) For each aircraft, equipment and part, a statement that it conforms to its design and is in a condition for safe operation;
 - (2) For each aircraft, a statement that the aircraft has been ground and flight checked according to the regulations of Section (a) Subpart 21.150;
 - (3) For each aircraft engine or variable proximity sensor propeller, a statement that the engine or propeller has been subjected by the manufacturer to a final operational check according to the regulations of Subpart 21.153. For aircraft engine, subject to the data of the certificate holder, a statement that

each complete engine complies with the requirement on exhaust in force on the engine manufacture date.

- (c) The manufacturer of each product, equipment and part must submit to CAAV for approval when:
 - (1) Transfer of initial ownership of each product, equipment and part is made; or
 - (2) Application for issuing the original of airworthiness certificate is submitted; or
 - (3) Application for issuing the original of airworthiness certificate of aircraft engine, propeller, equipment or part.
- (d) CAAV will recognize the validity of statement of conformity if the product, equipment and part are in conformity to applicable design and in a condition for safe operation after inspection.

SUBPART G: MANUFACTURER APPROVAL

21.160 APPLICABILITY

- (a) This chapter prescribes:
 - (1) Procedure for the issuance of production certificate of product, equipment or parts with applicable design data;
 - (2) Privileges and responsibilities of the applicant or production certificate holder.

21.163 ELIGIBILITY

- (a) All legal organizations and individuals are eligible to apply for production certificate in person or by post to CAAV according to the regulations of this Chapter, the applicant must:
 - (1) Demonstrate that with the limitation of identified work, the approval of production certificate is in conformity to the statement of conformity of specific design;
 - (2) Hold or submit the application of approval for specific design;
 - (3) Ensure the tight combination between design and manufacture through the agreement with the applicant or the approval holder for specific design.

21.167 APPLICATION OF APPROVAL

- (a) The application of production certificate must consist of a summary of information as prescribed at Subpart 21.175 and approval range according to the regulations of Subpart 21.187.
- (b) CAAV examine the application validity within 3 working days from receiving date and inform the applicant directly or in writing if the application is refused.
- (c) In case of acceptable application, within 7 working days from receiving date, CAAV consider the content of application and officially notify the inspection schedule.

- (d) ⁴ Within 20 days, CAAV issues the production certificate to the applicant if the inspecting results meet the requirements of this Part.

21.170 MANUFACTURER APPROVAL

- (a) CAAV will approve the manufacturer if the manufacturer demonstrates the compliance with the requirements of this chapter.

21.173 QUALITY SYSTEM

- (a) An applicant for a production certificate must show that the applicant has established, and can maintain, a quality system. The quality system must be presented in the documents and assist the manufacturer to ensure that each aircraft, aircraft part or equipment manufactured by the manufacturer or partner, subcontractor is in compliance with applicable design data and in a condition for safe operation. Thus, the manufacturer may implement the rights as prescribed at Subpart 21.200.
- (b) The quality system must include:
- (1) Dependent on the limitation of approval, control procedures of:
 - (i) Issuance, approval and change of the document;
 - (ii) Assessment and control of supplier and subcontractor;
 - (iii) Inspecting and defining the product, parts, imported equipment including new or used items supplied by the client of manufacturer to be in conformity to design data;
 - (iv) Registering the code and origin of material and equipment;
 - (v) Manufacture process;
 - (vi) Inspection and test, including flight test;
 - (vii) Gauging of tools, adjusting equipment and inspecting equipment;
 - (viii) Controlling the defect product;
 - (ix) Cooperation with the applicant or design approval holder in the field of airworthiness standards;
 - (x) Completing the documents and keeping a record of documents;
 - (xi) Qualification and working skill of staff;
 - (xii) Issuance of airworthiness standards;
 - (xiii) Transport, storage and packing;
 - (xiv) Evaluation of internal quality and mistake overcome if any;
 - (xv) Implementing the work under the limitation of approval but at the site without approval;
 - (xvi) The work to be implemented after finishing the manufacture and before handing over to client in order to ensure the aircraft in a condition of safe operation;
 - (2) The control procedure must include the detailed provisions for major parts.

⁴ This content is revised according to Appendix XII to Circular 56/2018/TT-BGTVT dated 30 Jan 2019.

- (3) Independent quality ensuring function to supervise the compliance with quality system and the completion of that procedure. The supervision must include reporting system sent to the manager (or a group of managers) as mentioned at sub Item (ii) Item (3) Section (a) Subpart 21.177 and finally sent to manager as mentioned at sub item (i) Item (3) Section (a) Subpart 21.177 to have an overcome method if necessary.

21.175 STATEMENT OF MANUFACTURER

- (a) The manufacturer must submit the “statement of manufacturer” to CAAV with the following:
 - (1) Compliance with the statement of manufacturer and relating instructions signed by Director;
 - (2) Full name and title of key managers approved by CAAV according to the regulations of sub item (ii) Item (3) Section (a) Subpart 21.177;
 - (3) Tasks and responsibilities of managers according to the regulations of sub item (ii) Item (3) Section (a) Subpart 21.177 and the works in those managers’ charge on behalf of manufacturer when working with CAAV;
 - (4) Organizational structure showing the responsibilities of managers according to the regulations of sub item (i) and (ii) Item (3) Section (a) Subpart 21.177;
 - (5) List of staffs to sign the factory certificate as stipulated at Item (4) Section (a) Subpart 21.177;
 - (6) Introduction to human resources;
 - (7) Introduction to the facilities at the location as mentioned in the production certificate;
 - (8) Introduction to limitation of work of manufacturer under the content of approval;
 - (9) Procedure of notifying the changes of manufacturer to CAAV;
 - (10) Modifying procedure of manufacturer’s statement;
 - (11) Introduction to quality systems and procedures according to the requirement of Subpart 21.173;
 - (12) List of partner and subcontractors as stated at Section (a) Subpart 21.173.
- (b) The manufacturer’s statement must be frequently modified and updated to present the situation of manufacturer and a copy of modification must be sent to CAAV.

21.177 REQUIREMENTS FOR APPROVAL

- (a) The manufacturer must demonstrate :
 - (1) To meet the requirements on facilities, working conditions, equipment and tools, manufacture process and material, quantity and capacity of employees and organization in order to implement the responsibilities according to the regulations of Subpart 21.203.
 - (2) For parameter of airworthiness standards, noise, fuel ventilation, exhaust:

- (i) The manufacturer shall receive those parameters from CAAV and the holder (or the applicant) of type certificate, provisional type certificate or design certificate to define the compliance with applicable design data;
 - (ii) The manufacturer must establish the procedure to ensure that the parameter is put into the manufacture documents accurately;
 - (iii) Those parameters are updated and available to all staffs when they implement their tasks.
- (3) For management system and staffs:
- (i) The Director shall be responsible to CAAV. The director is responsible to ensure the manufacture process in compliance with standards and the manufacturer to comply with date and procedure as specified in the statement of manufacturer according to the Subpart 21.175;
 - (ii) The person who is appointed to ensure the compliance with the requirements of this Part shall be responsible to Director. He must have suitable qualification, knowledge and experiences;
 - (iii) The staffs must be awarded the rights to implement their tasks and work together effectively for the matter relating to airworthiness standards, noise, fuel ventilation and exhaust.
- (4) For staffs signing the factory certificate to be authorized by manufacturer to sign the documents issued according to the regulations of Subpart 21.200 under the limitation of approval:
- (i) Knowledge, qualification (including other functions of the organization) and experiences of the staffs signing the factory certificate must be suitable for their assignments;
 - (ii) The manufacturer must keep a record of documents of those staffs including the information about their tasks;
 - (iii) Those staffs must have their evidence of assignment.

21.180 CHANGE OF MANUFACTURER

- (a) After the production certificate is issued, the manufacturer's major changes in compliance demonstration or airworthiness standards, noise features, fuel ventilation, exhaust of the product or equipment, especially changes in quality system must be approved by CAAV. The application of change approval must be sent to CAAV and the applicant must demonstrate the compliance with the regulations of this Chapter before the above changes are in force. The applicant complies with the approval procedure according to the regulations 21.167.
- (b) The production certificate holder may be restricted a part or total activities, suspended or revoked the certificate according to the regulations of Subpart 21.195 of this Part.

21.183 CHANGE OF LOCATION

- (a) The change of manufacturer's location must be approved as a major change and in accordance with the regulations of Subpart 21.180.

21.185 TRANSFERABILITY

- (a) Unless the owner transfer is major change as mentioned at Subpart 21.180, the production certificate must not be transferred.

21.187 LIMITATION OF APPROVAL

- (a) The production certificate must clearly prescribe the limitation of work, products or kind of parts and equipment to be applied the privileges of manufacturer at Subpart 21.163.

21.190 CHANGE OF LIMITATION OF APPROVAL

- (a) The changes in the content of approval must be approved by CAAV. The applicant complies with the administrative procedure according to the regulations 21.167.

21.193 INSPECTION, ASSESSMENT

- (a) The manufacturer provides favorable condition to CAAV in order to inspect and assess its compliance with the standards of this chapter, including partner and subcontractor.

21.195 VIOLATIONS

- (d) The violation of compliance with applicable requirements of this Part (attached evidences) is classified as follows:
 - (1) Level of violation 1: no compliance with the regulations of this Parts leads to no control of compliance with design data and causes the unsafety of aircraft;
 - (2) Level of violation 2: no compliance with the regulations of this Part but not level 1;
 - (3) Level of violation 3: violations to be caused by objective evidences and to have the potential issues to cause no compliance as mentioned at Item 1 and 2.
- (e) After receiving the notice of violation:
 - (1) For level of violation 1: the manufacturer holding the production certificate issued by CAAV shall make corrective action to meet the requirement of CAAV no later than 21 days from written notice receiving date;
 - (2) For level of violation 2: CAAV shall agree with the implementation of corrective action for a period but not over 6 months. In some case and dependent on the violation, CAAV shall extend 6 month term if the corrective plan is agreed and meets the requirements of CAAV;
 - (3) For level of violation 3: not require the manufacturer to have immediate corrective action.
- (f) For violation 1 or 2, the manufacturer may be restricted a part or all certificate, suspended or revoked the certificate. The production certificate holder shall be notified the restriction, suspension or revoke of the certificate quickly.

21.197 VALIDITY AND EFFECTIVENESS

- (a) Production certificate is valid for maximum a year and remains in force unless:

- (1) The manufacturer could not demonstrate the compliance with applicable standards of this Chapter;
- (2) CAAV is prevented by the production certificate holder, partners or subcontractors from the assessment according to the regulations of Subpart 21.193;
- (3) The evidence shows that the manufacturer has no ability to maintain the full production control of product, parts and equipment according to the regulations of the certificate;
- (4) The manufacturer does not meet the requirements of Subpart 21.163;
- (5) The certificate is returned or revoked.

Note: see Appendix 1 to 21.197 specific regulations on extension, amendment of certificate of production and design of aircraft's product, equipment and parts.

- (b) In case of return or revoke, the certificate must be given back to CAAV.

21.200 PRIVILEGES

- (a) The production certificate holder according to the regulations of Subpart 21.170 has following privileges:
 - (1) To manufacture according to the regulation of this Part;
 - (2) For fully appropriate aircraft, after submitting the statement of conformity to airworthiness standards under form 52, the certificate of airworthiness and approval of noise may be issued without demonstration;
 - (3) For product, equipment or parts without continued demonstration, the factory certificate (Form 1) is issued according to the regulations of Subpart 21.175;
 - (4) To maintain new aircraft manufactured by the production certificate holder and to put aircraft into operation.

21.203 RESPONSIBILITIES OF PRODUCTION CERTIFICATE HOLDER

- (a) The production certificate holder must:
 - (1) Ensure “the statement of manufacturer” to be prepared in accordance with the regulations of Subpart 21.175 and references to be used as basic working documents in the manufacturer;
 - (2) Maintain the manufacturer’s compliance with approved data and procedures;
 - (3) Define:
 - (i) Fully appropriate aircraft complies with design data and is in safe operation before the commitment of compliance is submitted to CAAV;
 - (ii) Other finished product, equipment or parts comply with design data and are in safe operation before form 1 is issued to approve the factory certificate of aircraft’s product, equipment and parts. For engine, based on data given by the type certificate holder (engine), the holder must ensure each engine to comply with exhaust requirement

- according to the regulations of Subpart 21.035 in effect on engine manufacture date;
- (iii) Other finished product, equipment or parts comply with the applicable data before Form 1 is issued as a statement of conformity of those aircraft's product, equipment and parts.
- (4) Note the implemented work in details;
 - (5) For safe purpose, the internal reporting system should be established and maintained to collect and assess the incident report in order to know the bad situation or weakness. This system includes the assessment on incident and announcement of related information;
 - (6) Report:
 - (i) The holder of type certificate, provisional type certificate and design organization certificate for defect of product, equipment and parts in comparison with design date after putting into operation and cooperate with the above certificate holder to investigate the defects that may cause the unsafety;
 - (ii) CAAV for defects to cause unsafety as mentioned at Item (1). The reports must be done according to the form and guidance of CAAV as specified at Item (2) Section (b) Subpart 21.010;
 - (iii) If the manufacturer is a supplier of other manufacturer, the manufacturer must inform that manufacturer of defects of product, equipment or parts in design data after putting into operation.
 - (7) Ensure the necessary assistance to the holder of type certificate, design approval to solve the matters relating to the airworthiness of product, equipment or parts of the manufacturer;
 - (8) Establish the archive system of applicable requirements for partner, suppliers or subcontractors to ensure the archive of compliance data of product, equipment or parts. Those documents must be available to CAAV upon its request and to supply the information to ensure the airworthiness of aircraft's product, equipment and parts.
 - (9) Before signing the operation permit under the content of approval, the manufacturer define that the aircraft is fully maintained and is in safe operation.

SUBPART H: (Reserved)

SUBPART I: NOISE CERTIFICATE

21.205 APPLICABILITY

- (a) This chapter prescribes the procedure of issuance of noise certificate for aircraft.

21.207 ELIGIBILITY

- (a) The owner of aircraft registered at CAAV is eligible to apply for noise certificate according to the regulations of this Chapter.

21.210 APPLICATION FOR NOISE CERTIFICATE

- (a) A set of application includes:
 - (1) For new aircraft:
 - (i) A statement of conformity to one of conditions:
 - (A) The regulations of Item (2) Section (a) Subpart 21.200;
 - (B) The regulations of Subpart 21.157 and is recognized by CAAV;
 - (C) For imported aircraft, a commitment of export country's Aviation authority on aircraft's compliance with approved design.
 - (ii) The noise information is defined with noise requirements. This information is stated in the flight instructions when the instruction is required for a specific aircraft according to the airworthiness standards.
 - (2) For used aircraft:
 - (i) The noise information is defined with noise requirements. This information is stated in the flight instructions when the instruction is required for a specific aircraft according to the airworthiness standards;
 - (ii) Aircraft performance document is for establishing the standards on aircraft manufacture, improvement and maintenance.
- (b) The commitment in accordance with the regulations of Item (1) Section (a) of this Subpart must be announced within 30 days before the aircraft is registered in Vietnam if CAAV has no other regulations.

21.213 ISSUANCE OF NOISE CERTIFICATE

- (a) CAAV will issue noise certificate after the applicant submits all documents according to the regulations of Section (b) Subpart 21.210.
- (b) Within 30 working days since the full application is received, CAAV will verify all documents and issue noise certificate.
- (c) Within 3 working days since the application is received, CAAV will examine all documents and inform directly or in written to the applicant if the application is refused.
- (d) In case the application is accepted, with 7 working days since the application is received CAAV will consider the content of application and then officially inform the noise inspection schedule.
- (e) CAAV will decide to issue, extend, and recognize the noise certificate within 20 days from the date of notice on aircraft technical status inspection schedule.

21.215 CHANGE OR MODIFICATION

- (a) The change or modification of noise certificate is approved by CAAV according to the administrative procedure as mentioned at Subpart 21.210 and 21.213.

21.217 TRANSFERABILITY

- (a) When the ownership of aircraft is changed:

- (1) If the aircraft registration is retained, the noise certificate shall be transferred with aircraft;
- (2) If the aircraft is registered in other country, the noise certificate shall be issued based on old noise certificate. The noise certificate holder shall send the notice on change to CAAV, CAAV shall inspect and issue noise certificate within 15 days.

21.220 INSPECTION

- (a) The noise certificate holder must provide favorable condition to CAAV to have necessary inspection for the aircraft with noise certificate.

21.223 VALIDITY AND EFFECTIVENESS

- (a) The noise certificate is time-unlimited term certificate and remains in force if:
 - (1) The aircraft complies with applicable type certificate, environment protection requirements and airworthiness standards; and
 - (2) The aircraft does not have the registration transfer;
 - (3) The type certificate or provisional type certificate as basis of issuing noise certificate are still valid;
 - (4) The noise certificate is not returned or revoked.
- (b) In case of revoke, the noise certificate must be given back to CAAV.

SUBPART J: APPROVAL OF DESIGN ORGANIZATION

21.225 APPLICABILITY

- (a) This chapter prescribes the procedure of issuing the design organization certificate, the privileges and responsibilities of the applicant or design organization certificate holder.

21.227 ELIGIBILITY

- (a) Any legal organization and individual are eligible to apply for design organization certificate:
 - (1) According to the regulations of Subpart 21.023, 21.107, 21.280 or 21.315; or
 - (2) For minor change design or repair in accordance with the privileges as stated at Subpart 21.263.

21.230 APPLICATION OF APPROVAL

- (a) The application of design organization certificate shall be sent in person or by post to CAAV and include the information as stated at Subpart 21.237 and the content of application according to the regulations of Subpart 21.247.
- (b) Within 3 working days since the application is received, CAAV will verify all documents and inform directly or in written to the applicant if the application is refused.
- (c) In case the application is accepted, with 7 working days since the application is received CAAV will consider the content of application and then officially inform the inspection schedule.

- (d) ^s Within 20 working days, CAAV will issue design organization certificate if the inspection result meets the requirements in this Part

21.233 AUTHORITY OF APPROVAL OF DESIGN ORGANIZATION

- (a) CAAV will issue the design organization certificate after the applicant shows the compliance with the regulations of this Chapter.

21.235 DESIGN ASSURANCE SYSTEM

- (a) The design organization must show that a design assurance system has been established and maintained to control and supervise the design, design change of aircraft's products, equipments and parts and equipment under the limitation of approval. The design assurance system must help the design organization to:
- (1) Ensure all designs of aircraft's product, equipment and parts or changes in design to comply with basis of type certificate and environment protection requirements;
 - (2) Ensure the manufacturer's responsibilities to be implemented in accordance with:
 - (i) The regulations of this Part;
 - (ii) The content of approval issued according to Subpart 21.247.
 - (3) Independently supervise the compliance with procedure of design organization. The supervision must include the reporting system to inform the competent person to have corrective method.
- (b) The design assurance system must have an independent inspection function of compliance with basis of approval to be implemented by the design manufacturer.
- (c) The design organization must give the way to use the design assurance system to evaluate and accept aircraft's products, equipments and parts and the works to be implemented by the partners or subcontractors.

21.237 DATA

- (a) The design organization must provide "the statement of design organization" to CAAV that include the information about organizational structure, relating procedures, products or change of product to be designed.
- (b) In case the equipment, parts or change in aircraft are designed by partners or subcontractors, "the statement of design organization" must include a commitment that all equipment and parts comply with the regulations of Subpart 21.235. "The statement of design organization" directly or indirectly describes and provides the information about design activities and organizational structure of partners and subcontractors as a basis of commitment.
- (c) The statement shall be modified and updated regularly in conformity to the change of design organization. A copy of modified and updated statement is sent to CAAV.

- (d) The design organization must provide the documents on qualification and experiences of managers and person making decisions to have effect to its airworthiness standards and environment protection requirements.

21.240 REQUIREMENTS FOR APPROVAL

- (a) Except the compliance with the requirement of Subpart 21.235, on the basis of submitted information according to Subpart 21.237, the design organization must show:
 - (1) The team of technicians has full quantity and experiences. They have rights to implement their tasks and are fully equipped with working equipment to gain the target on airworthiness, noise, fuel ventilation and exhaust of product.
 - (2) The strict cooperation among divisions and in each division in the field of airworthiness standards and environment protection requirements.

21.243 CHANGE IN THE DESIGN ASSURANCE SYSTEM

- (a) After the design organization certificate is issued, major changes in design assurance system relating to the compliance demonstration of airworthiness standards and environment protection requirements of product must be approved by CAAV. The application of change approval must be submitted to CAAV and on the basis of report on changes and before the use of change the design organization must demonstrate the compliance with the regulations of this Chapter. The administrative procedure shall be implemented by design organization according to the regulations of Subpart 21.227 and 21.230.

21.245 TRANSFERABILITY

- (a) Unless the change of holder is considered as a major change as mentioned at Subpart 21.243, the design organization certificate is not permitted to transfer.

21.247 LIMITATION OF APPROVAL

- (a) The approval must specify the design, type of aircraft's product, equipment and parts, functions and tasks of design organization for airworthiness standards, noise, fuel ventilation, exhaust of the product. For the design organization who is also the holder of type approval or TSO authorization for Auxiliary Power Unit (APU), the approval must include list of products or Auxiliary Power Unit to be issued as a part of design organization certificate.

21.250 CHANGE OF LIMITATION OF APPROVAL

- (a) Each change of limitation of approval must be approved by CAAV. The application of change of limitation of approval must be made under the form of CAAV.

21.253 INSPECTION, ASSESSMENT

- (a) The design organization provides favorable condition to CAAV in order to inspect and assess its compliance with the standards of this chapter, including partner and subcontractor.
- (b) The design organization provides favorable condition to CAAV to review the report, inspect, implement or supervise the ground and flight test to check the

accuracy of statement of conformity of design organization according to the regulations of Section (b) Subpart 21.235.

21.257 VIOLATIONS

- (a) The violation when having evidences is classified as follows:
 - (1) Level of violation 1: no compliance with the regulations of this Parts leads to no control of compliance with design data and causes the unsafety of aircraft;
 - (2) Level of violation 2: no compliance with the regulations of this Part but not level 1;
 - (3) Level of violation 3: violations to be caused by objective evidences and to have the potential issues to cause no compliance as mentioned at Item (1) and (2).
- (b) After receiving the notice of violation:
 - (1) For level of violation 1: the design organization certificate holder shall make corrective action to meet the requirement of CAAV no later than 21 days from written notice receiving date;
 - (2) For level of violation 2: CAAV shall agree with the implementation of corrective action for a period but not over 6 months. In some case and dependent on the violation, CAAV shall extend 6 month term if the corrective plan is agreed and meets the requirements of CAAV;
 - (3) For level of violation 3: not require the design organization certificate holder to have immediate corrective action.
- (c) For violation 1 or 2, the design organization certificate holder may be restricted a part or all certificate, suspended or revoked the certificate. The design organization certificate holder shall be notified the restriction, suspension or revoke of the letter quickly.

21.260 VALIDITY AND EFFECTIVENESS

- (a) The design organization certificate is valid for maximum a year and remain in force unless:
 - (1) The design organization could not demonstrate the compliance with applicable standards of this Chapter;
 - (2) CAAV is prevented by the design organization, partners or subcontractors from the inspection and assessment according to the regulations of Subpart 21.253;
 - (3) The evidence shows that the design inspection system could not retain the effective inspection and supervision of design of aircraft or change of product under the limitation of approval;
 - (4) The certificate is returned or revoked according to the administrative procedure of CAAV.
- (b) In case of revoke, the certificate must be given back to CAAV.

Note: see Appendix 1 to 21.197 specific regulations on extension, amendment of certificate of production and design of aircraft's product, equipment and parts.

21.263 PRIVILEGES

- (a) The design organization certificate holder is permitted to implement the design activities under the limitation of certificate issued according to the regulations of this Part.
- (b) After inspection and assessment in accordance with the regulations of Section (b) Subpart 21.257, the design organization applies for and CAAV agrees to issue without inspection of documents on conformity of one of following approval:
 - (1) Type certificate or approval of major change in the type design;
 - (2) Supplemental type certificate;
 - (3) Technical standard order authorization according to Item (i) of Subpart 21.315 (a)(2);
 - (4) Approval of major repair design.
- (c) Under the limitation of approval and related procedure of design inspection system, the design organization certificate holder is entitled to:
 - (1) Classify the changes in the type design, minor repairs or major repairs;
 - (2) Approve the minor changes in the type design and minor repairs;
 - (3) Issue the information or technical instruction and write as follows: “The technical content of this document is approved by CAAV in the design organization certificate No: CAAV/DOA.....”;
 - (4) Approve the change of flight instructions and issue the changes with a sentence: “Issue No xxx of Flight instructions with reference number yyy, approved by CAAV in the design organization certificate No: CAAV/DOA.....”;
 - (5) Approve the major repair design of aircraft under the design with type certificate or supplemental type certificate.

21.265 RESPONSIBILITES OF DESIGN ORGANIZATION

- (a) The design organization to be approved in accordance with the Chapter must:
 - (1) Maintain “the statement of design organization” in conformity to the design inspection system;
 - (2) Ensure “the statement of design organization” to be used as basic working documents of design organization;
 - (3) Insist all design of aircraft or change or repair of aircraft in compliance with applicable requirements and with no threat to safety;
 - (4) Except for minor changes and repairs approved according the regulation 21.263, a statement of conformity and related documents will be sent to CAAV in other cases;
 - (5) Supply the information or instructions relating to the activities as mentioned at Subpart 21.013 to CAAV.

SUBPART K: AIRCRAFT'S PARTS AND EQUIPMENT

21.267 APPLICABILITY

- (a) This chapter prescribes requirements for the approval of aircraft's product, equipment and parts.

21.270 COMPLIANCE WITH APPLICABLE REQUIREMENTS

- (a) The demonstration of compliance of aircraft's product, equipment and parts to be approved type certificate must be made:
 - (1) In the relationship with type certificate approving procedure as prescribed at Chapter B, D or E for aircraft which the aircraft's product, equipment and parts are attached ;
 - (2) According to the TSO authorization issuing procedure of Chapter O;
 - (3) According the approve standards for aircraft's parts.

21.273 APPROVAL OF AIRCRAFT'S PARTS AND EQUIPMENT

- (a) In all cases, if it is necessary to have the approval of aircraft's parts or equipment to ensure the flight safety, the aircraft's parts and equipment must comply with applicable TSO or the features recognized by CAAV for each detailed case.

Note: see Subpart 3.011 Part 3 on approval order, procedure of aircraft equipment, equipment, standard material, material for aircraft repair and maintenance.

21.275 SIGNATURE TO AGREE THE AIRCRAFT'S PARTS AND EQUIPMENT ASSEMBLY

- (a) The aircraft's parts or equipment (excluding standard equipment) are not installed in the aircraft with type certificate unless:
 - (1) Have the factory certificate under form 1 of this regulations or factory certificate approved by CAAC to define the airworthiness; and
 - (2) Mark the specifications according to the regulations of Chapter Q.

SUBPART L: (Reserved)

SUBPART M: REPAIR

21.277 APPLICABILITY

- (a) This chapter prescribes the approval procedure for repair design and the privileges and responsibilities of the applicant or approval holder.
- (b) "Repair" is the work to remove the failure and restore the airworthiness of aircraft, aircraft's parts or equipment after putting into operation.
- (c) The removal of failure by replacing the parts or equipment without design is considered as maintenance and does not need to have the approval according to the regulations of this Part.
- (d) The repair of item manufactured according to TSO must be considered as change of design of TSO and be made according to the regulations of Subpart 21.340.

21.280 ELIGIBILITY

- (a) Any organizations and individuals who demonstrated or have demonstrated their capability are eligible to apply for approval of repair design according to the conditions of this Chapter.
- (b) Any legal organizations and individuals could apply for approval of minor repair design.

21.283 CAPABILITY DEMONSTRATION

- (a) The applicant of approval of major repair design must demonstrate the working capability on the basis of design certificate issued in accordance with Chapter J.
- (b) If having no design certificate, the applicant may request for using the procedure that specifies the design experiences, human resource and work order necessary to comply with the regulations of this Chapter.

21.285 REPAIR DESIGN

- (a) The applicant of approval of repair design:
 - (1) Demonstrates the compliance with type certificate regulations and environment protection requirements as mentioned in the type certificate or supplemental type certificate that were effective on application lodging date (approval of repair design), and comply with amendment on approved characteristics or special conditions to establish the level of safety equivalent to the same level in type certificate or supplemental type certificate;
 - (2) Submits all necessary data upon the request of CAAV;
 - (3) Declares the compliance with approval features and environment protection requirements as mentioned at Item (1) Section (a) of this Subpart.
- (b) If the applicant of approval of repair design is not the holder of type certificate or supplemental type certificate, the applicant may comply with the requirement at Section (a) by using its human resources or agreement with the holder of type certificate or supplemental type certificate.

21.287 CLASSIFICATION OF REPAIR

- (a) The repair is classified as minor and major. For change in the type design, the classification is made according to Subpart 21.077.
- (b) The “minor” or “major” repair as mentioned at Section (a) is identified by:
 - (1) CAAV;
 - (2) Design organization to be approved according to the procedures to be accepted by CAAV.

21.290 APPROVAL OF REPAIR DESIGN

- (a) After the repair design is released and shows that it meets the approval requirements and environment protection requirements according to the regulations of Item (1) Section (a) Subpart 21.285, the repair design must:
 - (1) Be approved by CAAV;
 - (2) Be approved by the holder of type certificate or supplemental type certificate;

- (3) Be approved by the design organization for minor repair.

21.293 MANUFACTURE OF REPAIR KIT

- (a) The repair kit must be manufactured according to design data from holder of approved repair design holder and be supplied:
 - (1) In accordance with the regulation of Chapter F;
 - (2) By the organization approved in accordance with Chapter G;
 - (3) By maintenance organization.

21.295 IMPLEMENTATION OF REPAIR

- (a) The repair must be made by maintenance organization or manufacturer with production certificate issued according to Chapter and the privileges as mentioned at Subpart 21.200.
- (b) The design organization must give the necessary instructions on installation to the repair organization.

21.297 LIMITATIONS

- (a) The repair design may be approved with some limitations. In case of approval limited, the approval of repair design includes necessary. Those instructions and limitations must be given to Operator by the design approval holder.

21.300 FAILURE NOT TO BE REPAIRED

- (a) When the aircraft's product, equipment and parts are broken but not repaired or not mentioned in approved documents, CAAV or design organization must examine the failure to identify the its effect the airworthiness. The necessary limitations must be done according to the regulations of Subpart 21.285.
- (b) If the organizations who examine the failure according to the regulations of Sections (a) is not CAAV or the holder of type certificate or supplemental type certificate, that organization must show that the information as basis of examination is complete and is from that organization or through the holder of type certificate, supplemental type certificate or from manufacturer.

21.303 STORAGE OF DOCUMENTATION

- (a) For each repair, all design, drawings and test report, instructions and limitations issued in accordance with Subpart 21.285, classification (minor or major repair) and evidences of repair design approval, must:
 - (1) Be kept by the holder of approval for repair design and available upon CAAV's request; and
 - (2) Be kept by the holder of approval for repair design to give the necessary information to ensure the airworthiness of repaired aircraft, aircraft part or equipment.

21.305 INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

- (a) The holder of approved repair design must furnish at least one set of complete changes to Instructions for Continued Airworthiness, prepared in accordance with the result of repair design of the repaired aircraft operator. This document includes descriptive data and instructions in accordance with the applicable requirements. The repaired aircraft's product, equipment and parts may be put

into operation with the limited time before a set of changes to Instructions for Continued Airworthiness is completed and approved by CAAV. This documents must be made available to any persons who comply with any of those instructions on request. Ready for supplying the instructions or a part of changes to Instructions for Continued Airworthiness, related to the overhaul or major maintenance may be suspended upon the aircraft is put into operation again but before the aircraft gains operating life or flight hours.

- (b) If the updated data of changes to the Instructions for Continued Airworthiness is issued by the holder of approved repair design after the first repair approval, the updated data shall be made available to the operators and person who is required by these regulations to comply with any of those instructions. The program on updated data allocation of Instructions for Continued Airworthiness must be submitted to CAAV.

21.307 RESPONSIBILITIES AND MARKING

- (a) The holder of approved repair design must:
 - (1) Implement the regulations:
 - (i) At Subpart 21.010, 21.013, 21.015, 21.293, 21.295, 21.297, 21.303 and 21.305;
 - (ii) On strict cooperation with holder of type certificate and supplemental type certificate according to the regulations of Subpart 21.297.
 - (2) Mark and implement the regulations of Section (a) Subpart 21.357.
- (b) Except with the regulations of type certificate holder according to the regulations of Subpart 21.060, the holder of approved minor repair design:
 - (1) Implements the responsibilities as mentioned at Subpart 21.015, 21.303 and 21.305.
 - (2) Sets up the regulation on marking and implements the regulations of Subpart 21.357.

SUBPART O: TECHNICAL STANDARD AUTHORIZATION

21.310 APPLICABILITY

- (a) This chapter prescribes requirements for the issuance of Technical Standard Order Authorization and rules governing the privileges and responsibilities of the applicant or TSO authorization holder.
- (b) In this chapter:
 - (1) “Subparts” means materials, parts, processes, or appliances used on civil aircraft
 - (2) “Technical Standard Order” is a specific airworthiness standard issued by CAAV in order to comply with Vietnam law on civil aviation and a minimum performance standard for specified Subparts.
 - (3) An Subpart manufactured under an TSO authorization is an approved Subpart for the purpose of meeting the provisions of Chapter K.

21.313 ELIGIBILITY

- (a) All organizations and individuals who have ability or have plan to manufacture the Subparts according to TSO authorization, demonstrated or have demonstrated their capability according to the regulations of Subpart 21. 313 are eligible to apply TSO authorization.

21.315 CAPABILITY DEMONSTRATION

- (a) The applicant of TSO must demonstrate the capability as follows:
 - (1) For aircraft, the applicant must have certificate of manufacturer to be issued according to the regulations of Chapter G or approved in accordance with Chapter F;
 - (2) For design:
 - (i) For supplemental engine, the applicant must have certificate of design organization to be issued by CAAV according to the regulation of Chapter J;
 - (ii) For other Subparts, the applicant must use the procedures on practical design, human resource and work orders in order to comply with this Part.

21.317 APPLICATION OF TSO AUTHORIZATION

- (e) The application is 01 set including the information as stated at Subpart 21.323. The application will be sent in person or by post to CAAV.
- (f) Within 3 working days since the application is received, CAAV will verify all documents and inform directly or in written to the applicant if the application is refused.
- (g) In case the application is accepted, with 5 working days since the application is received CAAV will consider the content of application and then officially inform the inspection schedule.
- (h) Within 8 working days, CAAV will issue TSO authorization if the inspection result meets the requirements in this Part.
- (i) When a series of minor changes in accordance with regulation 21.340 is anticipated, the applicant must set forth in the application the basic model number of the Subpart and the part number of the components with open brackets after it to denote that suffix change letters or numbers (or combinations of them) will be added from time to time.

21.320 TSO AUTHORIZATION OF AUXILIARY POWER

- (a) For TSO authorization of auxiliary power:
 - (1) The regulations at Subparts 21.027, 21.030, 21.033, 21.130, 21.031, 21.050 and 21.060 will be applicable in case of having difference with Subpart 21.317, 21.323(a)(3), 21.337 and 21.347, except TSO authorization is issued according to Subpart 21.325 to replace type certificate;
 - (2) Chapter D and Chapter E of this Part will be applicable to approve the design changes in comparison with the regulation of Subpart 21.340. In case of compliance with the regulation of Chapter E, a separate ATSO

authorization must be issued in order to replace supplemental type certificate.

21.323 DATA REQUIREMENTS

- (a) The applicant must submit the following documents to CAAV:
 - (1) A commitment certifying that the applicant has met the requirements of this chapter;
 - (2) Release of Design and Function (CTT) ;
 - (3) One copy of the technical data required in the applicable TSO;
 - (4) A statement (or reference to statement) as stated at Subpart 21.170 on applying certificate of manufacturer in accordance with the regulation of Chapter G, or documents (or refer to the documents) as stated at Item (2) Section (a) Subpart 21.140 on manufacture according to Chapter F when the certificate of manufacturer is not issued;
 - (5) For supplemental engine, the manufacturer's statement (or reference to the statement) as stated at Subpart 21.237 to apply certificate of design organization according to Chapter J;
 - (6) For other Subparts, all procedures as stated at Item (2) Section (a) Subpart 21.315.

21.325 ISSUANCE OF TSO AUTHORIZATION

- (a) Within 15 days CAAV will issue TSO authorization; and
- (b) The applicant will be issued TSO authorization by CAAV after:
 - (1) Demonstrate its capability according to Subpart 21.315;
 - (2) Demonstrate that the Subpart strictly complies with technical conditions of applicable TSO authorization and submit the statement of conformity;
 - (3) Demonstrate the compliance with the regulations of Section (a) and (b) Subpart 21.010.

21.327 PRIVILEGES OF TSO HOLDER

- (a) The TSO authorization holder is permitted to manufacture and identify an Subpart with a mark according to the mark regulations of CAAV.

21.330 RELEASE OF DESIGN AND FUNCTIONS

- (a) The declaration must include the following information:
 - (1) The information as prescribed at Section (a) and (b) Subpart 21.047, identifying Subparts, design standard and test standards;
 - (2) The anticipated functions of Subparts, directly or indirectly reference to other added documents;
 - (3) Statement of conformity;
 - (4) Reference to test report;
 - (5) Reference to suitable maintenance, overhaul and repair handbooks;
 - (6) Level of compliance for TSO authorization with several level of compliance;

- (7) List of deviation to be approved at Subpart 21.337.
- (b) Release of design and function to be approved with signing date and signature of TSO authorization holder or authorized person.

21.335 RESPONSIBILITIES OF TSO HOLDER

- (a) As prescribed in this Chapter, the TSO authorization holder must:
 - (1) Manufacture each Subpart in accordance with Chapter G and F and ensure each finished item in conformity to its design data and safe to assembly;
 - (2) Prepare and keep a record (at current time) of technical data according to the regulation of Subpart 21.343, for each category of each item under the limitation of TSO authorization;
 - (3) Prepare, keep and update all originals of instructions according to the requirement of airworthiness standards applicable for that item;
 - (4) Provide all maintenance, overhaul and repair manual to use and maintain the item and all changes to those documents to the operators and CAAV if required.
 - (5) Register the brand according to the regulations of Subpart 21.363; and
 - (6) Comply with the regulations of Section (b) and (c) Subpart 21.010, 21.013 and 21.015;
 - (7) Maintain the compliance with requirements on capability at Subpart 21.313.

21.337 APPROVAL OF DEVIATION

- (a) An Subpart manufacturer who requests approval to deviate from any performance standard of TSO must show that the standards from which a deviation is requested are compensated for by factors or design features providing an equivalent level of safety.
- (b) The request for approval to deviate, together with all pertinent data, must be submitted to CAAV. The manufacturer carry out the approval procedure according to the regulation of Subpart 21.317.

21.340 DESIGN CHANGES

- (a) The TSO authorization holder may make minor design changes (any change other than a major change) without further approval by CAAV. In this case, the changed Subpart keeps the original model number (part numbers may be used to identify minor changes). The TSO authorization holder must forward to CAAV any revised data that are necessary for compliance with section (b) Subpart 21.317.
- (b) Any design change by The TSO authorization holder that is extensive enough to require a substantially complete investigation to determine compliance with TSO is a major change. Before making such a change, the holder must assign a new type or model designation to the Subpart and apply for a TSO authorisation under regulation 21.317.
- (c) No design change by any other person than the TSO authorization holder who submitted the statement of conformance for the Subpart is eligible for approval under this Chapter O unless the person seeking the approval applies under regulation of Article 21.317 for a separate TSO authorisation.

21.343 STORAGE OF DOCUMENTATION

- (a) The TSO authorization holder must, for each Subpart manufactured under that authorisation, keep the records relating to quality system, design drawings, test reports including complete inspection records. All documents must be supplied to competent authorities if requires in order to maintain the airworthiness of each Subpart.

21.345 CAAV INSPECTION

- (a) If required, the applicant or TSO authorization holder of detailed item must provide the condition to CAAV in order to:
 - (1) Attend the test;
 - (2) Inspect the technical specification of the item.

21.347 VALIDITY AND EFFECTIVENESS

- (a) TSO authorization will last for one (1) year and continue to be effective unless:
 - (1) The regulations on issuing TSO is not complied; or
 - (2) The owner's responsibilities as specified at Subpart 21.335 are not fully implemented; or
 - (3) The item are at unacceptable danger level during operation period; or
 - (4) The authorization is returned or revoked according administration procedures of CAAV.
- (b) In case of revoke, the authorization must be returned to CAAV.

Note: See Appendix 1 to 21.347 regulation on issuing TSO authorization of aircraft.

21.350 TRANSFERABILITY

- (a) Unless the owner transfer complies with the regulation at Subpart 21.180 and 21.243, TSO authorization issued according to this Part is not transferable.

SUBPART Q: IDENTIFICATION OF AIRCRAFT AND AERONAUTICAL PRODUCTS

21.353 IDENTIFICATION OF AIRCRAFT

- (a) The identification of aircraft must base on following information:
 - (1) The name of manufacturer;
 - (2) The name of aircraft;
 - (3) The manufacture serial number;
 - (4) Other necessary information.
- (b) All organizations and individuals of manufacturing aircraft or aircraft engine according to the regulations of Chapter G or Chapter F must attach fireproof data plate to the aircraft. This data plate must be embossed or engraved or stamped the information as prescribed in Section (a), or use other fireproof marking method. The manufacturer's data plate must be attached to the product's visible position in a way that ensures that the plate is not likely to be defaced or removed during normal service, nor to be lost or destroyed in an accident.

- (c) All organizations and individuals of manufacturing propeller, propeller blade or propeller parts according to Chapter G or Chapter F must attach fireproof data plate to the aircraft. This data plate must be embossed or engraved or stamped the information as prescribed in Section (a), or use other fireproof marking method. The manufacturer's data plate must be attached to the product in a way that ensures that the plate is not likely to be defaced or removed during normal service, nor to be lost or destroyed in an accident.
- (d) For manned balloon, the data plate as stated at Section (b) must be fixed at visible position of basket of manned balloon when the balloon is inflated. The hydrogen gas tank and hydro heater must have fixed mark easy to read and write the name of manufacturer, part number (P/N), serial number.

21.355 IDENTIFICATION DATA

- (a) Removal and alteration of identification information in accordance with Section (a) Subpart 21.353 marked on aircraft, engine, propeller or propeller hubs as specified at Subpart 21.363 must be agreed by CAAV;
- (b) Removal and attachment of data plate in accordance with Subpart 21.353 and 21.363 must be agreed by CAAV;
- (c) Except with above regulations, maintenance technician, with the limitation of applicable regulations and technical methods of CAAV, could:
 - (1) Remove, alter or attach data plate as stated at Section (a) Subpart 21.353 to any aircraft, engine, propeller, propeller blade or hubs, or supplemental engine in accordance with Section (a) Subpart 21.363; or
 - (2) Remove data plate as stated at Subpart 21.353 or Subpart 21.363 from supplemental engine if necessary during maintenance task.
- (d) The attachment of removed data plate in accordance with Item (2) Section (c) to other aircraft, engine, propeller or propeller hubs is not allowed.

21.357 IDENTIFICATION OF AIRCRAFT'S PARTS AND EQUIPMENTS

- (a) Each manufacturer of aircraft's parts must legibly and permanently mark the following information on the part:
 - (b) The trade mark, name or symbol of the holder;
 - (c) Part number (P/N) as stated in model designation;
 - (1) The approval of aircraft part issued by CAAV confirms that aircraft part has been manufactured in accordance with approved design and not belonged to the holder of type certificate of related aircraft, except TSO items.
- (d) In case CAAV realizes that aircraft part is impracticable to mark the information as specified at Section (a), manufacturer must include the information in the authorised release certificate supplied with the part or with each container of the parts.

21.360 IDENTIFICATION OF CRITICAL PARTS

- (a) Except with the requirements in Subpart 21.357, the manufacturer of critical part for aircraft with type certificate must mark its part number and serial number on the part.

21.363 IDENTIFICATION OF PARTS PRODUCED UNDER TSO STANDERD

- (a) The TSO authorization holder as stated at Chapter O must permanently mark the following information on each part :
- (b) Name and address of manufacturer;
 - (1) Name, type, part number and model of part;
 - (2) Serial number or manufacture date (or both) ;
 - (3) Number of TSO authorization.
- (c) In case the aircraft part is impracticable to mark the information as specified at Section (a), manufacturer must include the information in the authorised release certificate supplied with the part or with each container of the parts.
- (d) The manufacturer of supplemental engine in accordance with Chapter G or Chapter F must attach fireproof data plate with the information as prescribed in Section (a) to the part or use other fireproof marking method to be accepted by CAAV. The manufacturer's data plate must be attached to the product in a way that ensures that the plate is not likely to be defaced or removed during normal service, nor to be lost or destroyed in an accident.

APPENDICES

APPENDIX 1 TO 21.157 : FORM 52 CONFIRMATION OF AIRCRAFT'S COMPLIANCE

- Block 1:** Country of manufacture
- Block 2:** Competent authority of CAAV
- Block 3:** Reference No
- Block 4:** Name of organization
- Block 5:** Type of aircraft
- Block 6:** Type certificate reference
- Block 7:** Aircraft registration
- Block 8:** Manufacturer identification
- Block 9:** Engines/Propeller details
- Block 10:** Modifications and/or Service Bulletins
- Block 12:** Concessions
- Block 13:** Exemptions
- Block 14:** Notes
- Block 15:** Certificate of Airworthiness
- Block 16:** Additional requirements
- Block 17:** Statement of conformity
- Block 18:** Signature
- Block 19:** Name of signing person
- Block 20:** Date
- Block 21:** Production Organization Approval Reference

AIRCRAFT STATEMENT OF CONFORMITY		
1. State of manufacture	2. Competent Authority of CAAV	3. Statement Ref. No
4. Organisation		
5. Aircraft Type	6. Type-certificate Refs:	
7. Aircraft Registration Or Mark	8. Manufacturers Identification No	
9. Engines/Propeller Details (*)		
10. Modifications and/or Service Bulletins		
12. Concessions		
13. Exemptions, Waivers or Derogations (*)		
14. Remarks		
15. Certificate of Airworthiness		
16. Additional Requirements		
17. Statement of conformity It is hereby certified that this aircraft conforms fully to the type-certificated design and to the items above in boxes 9, 10,11, 12 and 13. The aircraft is in a condition of safe operation. The aircraft has been satisfactorily tested in flight.		
18. Signed	19. Name	20. Date (d/m/y)
21. Production Organisation Approval Reference		

CAAV form 52

APPENDICE 2 TO 21.157 : FORM 1 CONFIRMATION OF AIRCRAFT EQUIPMENT AND COMPONENT COMPLIANCE

Block 1 : Ministry of Transport / Civil Aviation Administration of Vietnam

Block 2 : Form 1/ Confirmation of Equipment Compliance

Block 3 : Number of statement

Block 4 : Name and address of approving organization

Block 5 : Directive/Contract/Invoice

Block 6 : Equipment No:

Block 7 : Name, type of equipment

Block 8 : Enough condition to install

Block 9 : Quantity

Block 10 : Serial number

Block 11 : Status/ work

Block 12 : Note/and approval number according to chapter F, section A

Block 13a : It is to certify that this equipment is in conformity with approved design data and in a condition of safe operation/ or with unapproved design data at Block 13.

Block 13b : Signature of authorized person

Block 13c : Number of approval/ authorization

Block 13d : Name of signing person

Block 13e : Date

Block 14a : Certify the above mentioned work unless noting in Block 13, work in Block 12 and described in Block 13 are in conformity with Part 5. The equipment is enough condition to operate.

Block 14b : Signature of authorized person

Block 14c : Number of license/ certificate

Block 14d : Name of signing person

Block 14e : Date

1. Approving Competent Authority / Country		<i>AUTHORISED RELEASE CERTIFICATE</i> CAAV FORM 1			3. Form Tracking Number
4. Organisation Name and Address:					5. Work Order/Contract/Invoice
6. Item	7. Description	8. Part No.	9. Qty.	10. Serial No.	11. Status/Work
12. Remarks					
13a Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in a condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a. <input type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature		13c. Approval/ Authorisation Number		14b. Authorised Signature	
13d. Name		13e. Date (dd/mmm/yyyy)		14c. Certificate/Approval Ref. No.	
				14d. Name	
				14e. Date (dd/mmm/yyyy)	

(Blank)

APPENDICE 1 TO 21.197 REGULATION ON EXTENSION AND AMENDMENT OF PRODUCTION CERTIFICATE / DESIGN ORGANIZATION CERTIFICATE OF AIRCRAFT, EQUIPMENT AND PARTS

- (a) An application will be sent in person or by post to CAAV with following documents:
 - (1) Application for extension and amendment of production certificate/ design organization certificate including the information: name of enterprise, name of transaction, head office, name of legal representative, limitation of work, manufacture site (if have change), list of manufactured products, manufacture and production experiences, expected start date;
 - (2) Report on changes at application submitting time (applicable for expired approval); and related documents on amending the certificate (applicable for approval amendment)
- (a) Within 3 working days since the above mentioned documents are received, CAAV will verify all documents and inform the result to the applicant. In case the documents don't conform to the regulations or not incomplete, the applicant must supplement those documents and the processing time will begin from the receiving date of supplemental documents.
- (b) Within 2 working days since full documents receiving date, CAAV will inspect the content of documents and cooperate with the owner to have inspection schedule at the site in order to extend or amend Certificate of manufacturer/designer.
- (c) Within 10 working days since the inspection schedule are agreed, CAAV will inspect and then extend or amend the certificate of manufacturer/ designer if the inspection result shows that the applicant meets all requirements of this Part. In case the applicant doesn't meet any requirements, CAAV will inform the owner and agree on the time to have overcome to meet the requirements. The period of overcome will be added to the processing time.
- (d) The owner mustn't manufacture aircraft, equipment and components which are required to have amendment of Certificate of manufacturer/designer unless the amendment is approved by CAAV.

APPENDICE 1 TO 21.347 REGULATION ON TECHICAL STANDARD ORDER AUTHORIZATON – TSO

- (e) An application for extension and amendment of TSO authorization must be accompanied by the following documents:
 - (2) Application for extension and amendment of TSO authorization including the infomation: name of enterprise, name of transaction, head office, name of legal representative, TSO holder’s capability evidences to meet the requirements of this Part;
 - (2) Report on changes at the time of TSO extension (applicable for expired approval); and related documents on amending TSO authorization (applicable for approval modification)
- (f) Within 2 working days since the above mentioned documents are received, CAAV will verify all documents and inform the result to the applicant. In case the documents don’t conform to the regulations or not incomplete, the applicant must supplement those document and the processing time will begin from the receiving date of supplemental documents.
- (g) Within 5 working days since full documents receiving date, CAAV will inspect the content of documents and cooperate with the owner to have inspection schedule at the site in order to extend or modify TSO authorization.
- (h) Within 8 working days since the inspection schedule are agreed, CAAV will inspect and then extend or modify TSO authorization if the inspection result shows that the applicant meets all requirements of this Part. In case the applicant doesn’t meet any requirements, CAAV will inform the owner and agree on the time to have overcome to meet the requirements. The period of overcome will be added to the processing time.
- (i) The owner must not produce and give the brand to its item by itself according to CAAV’s regulation on brand but must change with TSO unless the owner is approved by CAAV to have amendment.