AIRWORTHINESS NOTICE

NOTICE 8107

Issue 1
19 July 2019

VALIDATION TO A TYPE CERTIFICATE
(CAAM PART 21 SUBPART B-1)

IN exercise of the powers conferred by section 24O of the Civil Aviation Act 1969 [Act 3], the Chief Executive Officer makes this Airworthiness Notice ("Notice") – Validation to a Type Certificate (CAAM Part 21 Subpart B-1).

This Notice provides the procedures and requirements pertaining to a validation to a Type Certificate under regulation 23 of the Civil Aviation Regulations 2016 and for any matters connected therewith.

This Notice is published by the Chief Executive Officer under section 24O of the Civil Aviation Act 1969 [Act 3] and come into operation on 19th July 2019.

Non-compliance with this Notice

Any person who contravenes any provision in this Notice commits an offence and shall on conviction be liable to the punishment under section 24O of the Civil Aviation Act 1969 [Act 3].

(Ahmad Nizar Zolfakar)
Chief Executive Officer
Civil Aviation Authority of Malaysia
19th July 2019
1.0 CITATION

This Notice may be cited as the Airworthiness Notice – Validation to a Type Certificate (CAAM Part 21 Subpart B-1) [Notice 8107].

2.0 APPLICATION

This Notice shall applies to a holder of a foreign type certificate.

3.0 INTERPRETATION

In this Notice, unless the context otherwise requires—

“Authority” means the Civil Aviation Authority of Malaysia;

“certificate of validation” means a certificate of validation issued by the Authority to a foreign type certificate under regulation 23 of the MCAR;

“certifying authority” means foreign authority or agency that is responsible for issuing a type certificate;

“EASA” means European Aviation Safety Agency;

“FAA” means Federal Aviation Administration of the United States of America;

“First of type” means aeronautical product which never been validated by the Authority and in the case of an aircraft, its type or model that is to be entered in the Malaysian Aircraft Register for the first time;

“MCAR” means Civil Aviation Regulations 2016; and

4.0 APPLICATION FOR ISSUANCE OF VALIDATION TO A TYPE CERTIFICATE

4.1 The Authority may issue validation to a Type Certificate if the Authority is satisfied that the applicant has fulfilled the following requirements—

(a) the aeronautical product is a first of type;
(b) there is an evidence of need by Malaysian operator to have the aircraft type to be registered in Malaysia;

(c) the airworthiness design code used for the product certification is as prescribed by FAA, EASA or any equivalent design code prescribed by any certifying authority familiar to the Authority.

(d) the aeronautical product holds FAA type certificate or EASA type certificate or type certificate issued by any certifying authorities familiar to the Authority;

(e) through certifying authority, submission of an application form CAAM/AW/8107-01 together with the data as stated in paragraph 5.0 of this Notice to the Authority and accompanied by the prescribed fee; and

(f) any other requirements as specified in this Notice.

4.2 Aeronautical product which holds foreign type certificate may not be required to hold a certificate of validation if —

(a) in the case of aircraft including its engine and propellers, hold or has held Malaysian Certificate of Airworthiness; or

(b) in the case of aircraft engines and propellers, the Authority is familiar with the certification system of the State of Design and which the product have been determined by the Authority not to have any novel or unusual design features or material.

5.0 DATA

The applicant shall submit the following data to the Authority—

(a) type certificate;

(b) Type Certificate Data Sheet;

(c) special conditions, exemptions, deviations, equivalent level of safety by the State of Design;

(d) Flight Manual including the supplements or equivalent document;

(e) Maintenance Data (Airworthiness Limitations);

(f) Proposed schedule and agenda for on-site visit as per validation agenda template specified in Appendix 1; and
(g) any other data as may be requested by the Authority.

6.0 TYPE VALIDATION PROCESS

6.1 The Authority shall conduct technical assessment or design investigation taking into account the product design, construction, modification standard and original certifications basis, to establish that a level of airworthiness equivalent to that provided by the Authority airworthiness standards has been met. Compliance with design related operational requirements will also be investigated.

6.2 For the purpose of paragraph 6.1 of this Notice, the applicant shall—

(a) submit declaration of compliance against design related requirements as determined by the Authority; and

(b) allow Authority to conduct on-site visit to the applicant premises and facilities and bear any expense incurred by reason of anything done or incidental to the on-site visit.

6.3 The Authority may issue a Certification Review Paper (CRP) for any significant issue related to the certification of the design or compliance to Authority additional requirements. The applicant shall provide response to give effect to the CRP.

6.4 As a result of the technical assessment or design investigation, the Authority may imposed additional requirements or special conditions and the certifying authority may be asked to certify that compliance with such additional requirements or special conditions.

6.5 The Authority may conduct a more in-depth technical assessment or design investigation if the Authority is not familiar with the certifying authority certification system.

7.0 IMPORTING REQUIREMENTS

The holder of certificate of validation shall comply with the design related airworthiness and operational requirements as determined by the Authority.

8.0 POST-VALIDATION SUPPORT

8.1 The holder of the certificate of validation shall notify the Authority if there is any major significant changes to the type certificate before the aircraft of the same type/model is imported into Malaysia.
8.2 For the purpose of paragraph 8.1, the Authority may conduct a design investigation on the major significant changes.

8.3 The holder of the certificate of validation shall provide continuing airworthiness data including updates to the Authority via an undertaking in writing.

9.0 TRAINING

9.1 The applicant shall provide relevant training to the Authority to support the continuing airworthiness of the aircraft.

9.2 The training shall be provided in advance prior to the first aircraft entry in Aircraft Register.

10.0 REVOCATION

This Notice revokes Airworthiness Notice 1, Airworthiness Notice 1 Appendix 1 and Airworthiness Notice 1 Appendix 3.
APPENDIX 1 VALIDATION AGENDA TEMPLATE

1.0 DESIGN ORGANISATION AND PRODUCTION ORGANISATION OVERVIEW

2.0 TECHNICAL REVIEW

2.1 Aircraft Design

(a) Structures

(b) Performance / Handling Characteristics

(c) Powerplant / Fuel Systems / APU / Engine Intermixing (if applicable)

(d) Flight Controls Systems

(e) Mechanical / Hydraulic Systems

(f) Avionics / Electrical Systems / HIRF / EMI / EWIS

(g) Airborne Software

(h) Environmental Control Systems

(i) Cabin Interiors / Crashworthiness

(j) Any other design features peculiar to the type

(k) Specific technical subject such as flutter, fatigue evaluation, ditching, underslung / hoisting system and night vision etc

2.2 Aircraft Operations

(a) Flight Manual

(b) Operational Approval (Airworthiness) - ETOPS, RVSM, RNP etc (as applicable)

3.0 CERTIFICATION BASIS REVIEW

3.1 Airworthiness Codes

3.2 Environmental & Noise

3.3 Special Conditions
3.4 Equivalent Level of Safety
3.5 Exemptions / Deviations
3.6 Operational Suitability Data (OSD)

4.0 COMPLIANCE TO MALAYSIAN REGULATIONS AND AIRWORTHINESS NOTICES (DESIGN RELATED)

5.0 CONTINUING AIRWORTHINESS
5.1 Instructions for Continued Airworthiness
5.2 OEM-Approved Data for Repairs / Modifications

6.0 DEMO FLIGHT (Optional)

7.0 VISIT TO FINAL ASSEMBLY LINE (Optional)

8.0 POST TYPE CERTIFICATE VALIDATION ACTIVITIES
8.1 Major significant changes to type design

Note: The above are typical areas to be covered, but it is not limited to, depending on the type design of the product.