

**May 2018**

### AIRCRAFT NOISE CERTIFICATION

#### 1.0 PURPOSE

This Advisory Circular is issued to address the growing concerns on aircraft noise levels around airports triggered by the requirement for aircraft noise limitations and certification. With the increasing volume of air traffic at airports, the requirement for noise certification has become a pre-requisite for operation of an aircraft within various States.

#### 2.0 REFERENCES

- 2.1.1 Regulation 11 of the Civil Aviation (Operation of Aircraft for Commercial Air transport) Regulation 2018
- 2.1.2 Regulations 36, and 38 and Second Schedule of the Civil Aviation (Airworthiness) Regulations 2018
- 2.1.3 Form ; AC-AWS022

#### 3.0 GUIDANCE AND PROCEDURES

##### 3.1.0 General Information

- 3.1.1 Aircraft included in the classification defined in Appendix I shall not land or take off in Kenya unless there is in force a Noise Certificate or a suitable statement attesting noise certification contained in another document issued or rendered valid by the state of registry and required by that state to be carried in the aircraft.
- 3.1.2 The Authority shall issue a Noise Certificate based on the manufacturer's noise certification. No further tests shall be performed by KCAA in this regard. New generation aircraft are certified for noise levels as part of the type certification requirements.

#### 4.0 APPLICATION FOR ISSUE OF NOISE CERTIFICATION

- 4.1.1 Application shall be made in writing for acceptance of the Noise Certificate.
- 4.1.2 The application shall be accompanied by the following documents:
  - a) Noise certificate issued by a competent Authority or attesting noise certification statement.
  - b) Proof of payment of applicable fees as prescribed in current AIC 09/17

#### 5.0 APPLICATION PROCESS

- 5.1.1 All applicants are required to submit on a letter and application form, AC-AWS022 applying for acceptance of noise certificate and attach where applicable, the following documents:
  - a) Noise certificate issued by a competent Authority or attesting noise certification statement.

- b) Take note of the certificate, verify its authenticity and if it clearly specify the aircraft meets Annex 16 noise requirements specified for the aircraft classification.
- c) Take note of noise statement attesting noise certification and verify that the relevant authority where the aircraft is designed or manufactured or registered approved the document containing such statement or the statement itself. Verify that the statement specify the aircraft to meet Annex 16 noise requirements specified for the aircraft classification

## 5.0 **ISSUANCE OF NOISE CERTIFICATES**

5.1.1 Upon acceptance of the relevant documents, the Noise Certificate shall be issued on a continuous validity basis on Form AIR 052.

5.1.2 The Noise Certificate shall be issued to a specific aircraft upon the satisfaction of qualification based on the manufacturer's specifications.



**Kenya Civil Aviation Authority**

# Appendix I

## AIRCRAFT NOISE CERTIFICATION CLASSIFICATIONS

### 1. Subsonic Jet Aeroplanes

- (a) Subsonic jet aeroplanes — Application for Type Certificate submitted before 6 October 1977.
- (b) Subsonic jet aeroplanes — Application for Type Certificate submitted on or after 6 October 1977 and before 1 January 2006.
- (c) Subsonic jet aeroplanes and propeller-driven aeroplanes with maximum certificated take-off mass 55 000 kg and over — Application for Type Certificate submitted on or after 1 January 2006 and before 31 December 2017.
- (d) Subsonic jet aeroplanes with maximum certificated take-off mass less than 55 000 kg — Application for Type Certificate submitted on or after 1 January 2006 and before 31 December 2020.
- (e) Subsonic jet aeroplanes with maximum certificated take-off mass 55 000 kg and over — Application for Type Certificate submitted on or after 31 December 2017.
- (f) Subsonic jet aeroplanes with maximum certificated take-off mass less than 55 000 kg — Application for Type Certificate submitted on or after 31 December 2020.

### 2. Propeller-driven STOL aeroplanes

### 3. Helicopters

- a) Helicopters- Application for the Type Certificate was submitted on or after 1 January 1985;
- b) Helicopters- Application for the Type Certificate submitted on or after 17 November 1988; and
- c) Helicopters- Application for the Type Certificate submitted on or after 21 March 2002.

### 4. Installed auxiliary power units (APU) and associated aircraft systems during ground operations

- a) Application for a Type Certificate was submitted on or after 6 October 1977.

### 5. Propeller-driven aeroplanes

- a) Propeller-driven aeroplanes over 8 618 kg — Application for Type Certificate submitted before 1 January 1985;
- b) Propeller-driven aeroplanes not exceeding 8 618 kg — Application for Type Certificate submitted before 17 November 1988;
- c) Propeller-driven aeroplanes not exceeding 8 618 kg — Application for Type Certificate or certification of Derived Version submitted on or after 17 November 1988;

- d) Propeller-driven aeroplanes over 8 618 kg — Application for Type Certificate submitted on or after 1 January 1985 and before 1 January 2006;
  - e) Propeller-driven aeroplanes with maximum certificated take-off mass over 8 618 kg and less than 55 000 kg — Application for Type Certificate submitted on or after 1 January 2006 and before 31 December 2020;
  - f) Propeller-driven aeroplanes with maximum certificated take-off mass 55 000 kg and over — Application for Type Certificate submitted on or after 31 December 2017;
  - g) Propeller-driven aeroplanes with maximum certificated take-off mass over 8 618 kg and less than 55 000 kg — Application for Type Certificate submitted on or after 31 December 2020.
- 6. Helicopters not exceeding 3 175 kg maximum certificated take-off mass**
- a) Helicopters -Type Certificate was submitted on or after 11 November 1993;
  - b) Helicopters -Type Certificate submitted on or after 21 March 2002
- 7. Supersonic aeroplanes**
- a) Supersonic aeroplanes — Application for Type Certificate submitted before 1 January 1975;
  - b) Supersonic aeroplanes — application for Type Certificate submitted on or after 1 January 1975.
- 8. Tilt-rotors** -Application for a Type Certificate submitted on or after 1 January 2018.

**APPENDIX 2****Form:AC-AWS022****APPLICATION FOR NOISE CERTIFICATE**

Nationality and Registration Marks:	Manufacturer and Manufacturer's Designation of aircraft:	Aircraft Serial Number:		
Name and Address of Operator				
Engine Type/Model:		Propeller Type/Model: (where applicable)		
Maximum Take-Off Mass:	Maximum Landing Mass:			
Additional Modifications incorporated for the purpose of compliance with the applicable Noise Certification Standards:				
Lateral/Full Power Noise Level:	Approach Noise Level:	Flyover Noise Level:	Overflight noise Level	Takeoff noise Level
Supporting Documentations attached :				
<p><b>APPLICATION AND DECLARATION</b></p> <p>I hereby apply for a noise certificate in relation to the above aircraft in accordance with the Civil Aviation (Airworthiness) Regulations. I hereby certify that all applicable noise levels and test procedures are in compliance with the applicable noise standards in ICAO Annex 16 Vol 1. I further declare that all documents submitted in support of this application are true in every respect.</p>				
_____		_____		
<b>Name &amp; Designation of Applicant</b>		<b>Signature &amp; Date</b>		