

## **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 Regulations 34 and 35 of the Civil Aviation (Airworthiness) Regulations
- 2.2 First Schedule of the Civil Aviation (Airworthiness) Regulations
- 2.3 Relevant Operation of Aircraft Regulations

### **3.0 GUIDANCE AND PROCEDURES**

#### **3.1.0 General Information**

The respective ICAO Annex requires that Noise certification be granted or validated by the State of Registry of an aircraft on the basis of satisfactory evidence that the aircraft complies with requirements for aircraft noise. On this basis Airworthiness Regulation 34 states that ‘An aircraft to which this regulation applies shall not land or take off in Tanzania unless there is in force a Noise Certificate issued or rendered valid by the competent Authority in which the aircraft is registered. Noise certification shall therefore be a requirement during an aircraft acceptance inspection.

**3.1.1** The respective ICAO Annex also requires that the documents attesting noise certification may take the form of a separate Noise Certificate or a suitable statement contained in another document approved by the State of Registry and required by that State to be carried in the aircraft. The First Schedule of the Civil (Airworthiness) Regulations provides guidance on the contents of the ‘Document attesting noise certification’.

**3.1.2** The documents attesting noise certification for an aircraft shall provide at least the following information:

- a) State of Registry; nationality and registration marks;
- b) Manufacturer’s serial number;
- c) Manufacturer’s type and model designation; engine type/model; propeller type/model (if applicable);
- d) Statement of any additional modifications incorporated for the purpose of compliance with the applicable noise certification Standards;



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- e) The maximum mass at which compliance with the applicable noise certification Standards has been demonstrated. Only one maximum take-off and landing mass pair shall be certificated for each individual aircraft;

**3.1.3** Airworthiness Regulation 35 requires that an aircraft included in the classification defined for noise certification purpose set out in Part A of the First Schedule shall be issued with a Noise Certificate or a suitable statement attesting noise certification contained in another document approved by the state of registry and required by that state to be carried in the aircraft.

**3.1.4** **Note;** First Schedule Part B (2) of Airworthiness Regulations requires that information on the document attesting to Noise Certification be included in the Aircraft Flight Manual.

**3.1.5** New generation aircraft get certified for noise levels as part of the construction requirements. The Authority shall issue a Noise Certificate based on the manufacturer's noise certification. No further tests shall be performed by the Authority in this regard.

**3.1.6** **Issuance of Noise Certificates** - The Noise Certificate shall be issued on a continuous validity basis. The applicable fee shall be as prescribed in AIC (Current Issue on Fees). Form AIR 052 is the Template for TCAA Aircraft Noise Certificate. This certificate shall be issued to a specific aircraft upon qualification based on the manufacturer's specifications. Personnel authorized by the Director General for this purpose shall be permitted to issue these Certificates. The following shall be observed;

- a) Availability of manufacturer's specifications,
- b) Qualification of aircraft when compared with limits provided in Annex 16 Vol.1 under title 'Maximum Noise Levels',
- c) Ensure there are no additional modifications that may have effect on manufacturer certified noise levels. If not clear consult manufacturer,
- d) Issue Certificate serial number in accordance with the Noise Certificate Register available from the front desk,
- e) The Noise Certificate shall be issued by personnel specifically authorized by the Director General for that purpose.

A handwritten signature in black ink, appearing to read 'F. P. ...', is written over a light blue rectangular background.

**Director Safety Regulation**