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AERONAUTICAL INFORMATION CIRCULAR

AEROPLANE INSTRUMENTS AND EQUIPMENT GROUND PROXIMITY  
WARNING SYSTEMS

**1. INTRODUCTION**

This AIC prescribes requirements relating to aeroplanes required to be equipped with ground proximity warning systems (GPWS) in compliance with the Civil Aviation (Air Navigation) Regulations, 2004 Part 7 Instruments and Equipment and ICAO Annex 6 Part 6.15..

**2. APPLICABILITY**

This AIC shall apply to :-

- 2.1. All Zimbabwe registered aircraft
- 2.2. All foreign registered aircraft included in an AOC issued by CAAZ.
- 2.3. All aircraft entering Zimbabwe airspace.

**3. COMPLIANCE**

The AIC shall become applicable from date of promulgation.

**4. EQUIPAGE REQUIREMENTS RELATING TO GPWS**

- 4.1. All turbine-engined aeroplanes of a maximum certificated take-off mass in excess of 5 700kg or authorised to carry more than nine passengers shall be equipped with a ground proximity warning system (GPWS).
- 4.2. All turbine – engined aeroplanes of a maximum certificated take off mass in excess of 15 000kg or authorised to carry more than 30 passengers shall be equipped with a ground proximity warning system which has a forward looking terrain avoidance function.
- 4.3. All turbine – engined aeroplanes of a maximum certificated take off mass in excess of 5 700 kg or authorised to carry more than nine passengers, for which the individual certificate of airworthiness was first issued on or after 1 January 2004, shall be equipped with a ground proximity warning system which has a forward looking terrain avoidance function.

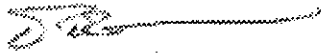
- 4.4. From 1 January 2007, all turbine engined aeroplanes of a maximum certificated take off mass in excess of 5 700kg or authorised to carry more than nine passengers, shall be equipped with a ground proximity warning system which has a forward looking terrain avoidance function.
- 4.5. From 1 January 2007 all piston engined aeroplanes of a maximum certificated take off mass in excess of 5 700 kg or authorised to carry more than nine passengers shall be equipped with a ground proximity warning system which provides for the warnings as prescribed by CAAZ, warning of unsafe terrain clearance and forward looking terrain avoidance function.
- 4.6. A ground proximity warning system shall provide automatically a timely and predictive warning to the flight crew when the aeroplane is in potentially hazardous proximity to the earth's surface.
- 4.7. A ground proximity warning system shall provide, unless otherwise specified herein, warnings of the following circumstances :
  - a) Excessive descent rate
  - b) Excessive terrain closure rate
  - c) Excessive altitude loss after take off or go-around
  - d) Unsafe terrain clearance while not in landing configuration
    - i) Gear not locked down
    - ii) Flaps not in a landing position
  - e) Excessive descent below the instrument glide path

## **5. EXEMPTIONS**

- 5.1. The cost of equipment and installation of the prescribed GPWS shall not be an acceptable criteria for an exemption.
- 5.2. On a case by case basis with supporting documents attached, applications relating to installation, confirmed parts orders including proof of payment and any other documents as shall be requested by CAAZ, may qualify for limited reprieve on the basis of some of the following;
  - 5.2.1. Late parts delivery (software, hardware, cables, etc.)
  - 5.2.2. Unexpected technical or airframe installation problems.
  - 5.2.3. Delays to certification process.
  - 5.2.4. Delays related to investigation of Technical Service Order/Number issues.
- 5.3. All exemptions shall be issued in writing by the Director of Flight Safety and Standards.

5.4. All applications for exemptions must be addressed to the :

The Director of Flight Safety and Standards  
Civil Aviation Authority of Zimbabwe  
Level 3, Wing D  
Harare international Airport.

A handwritten signature in black ink, appearing to read 'D. Chawota', with a long horizontal line extending to the right.

**D. Chawota**  
**General Manager**