

AERONAUTICAL INFORMATION CIRCULAR - MOÇAMBIQUE
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AIC - International
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ADVISORY

PROCEDURES FOR PROTECTION OF SITES FOR NAVIGATIONAL AIDS

1. Authority

This advisory circular is issued by the Executive Chairman of the Institute of Civil Aviation of Mozambique (IACM) in pursuance of powers vested in him under Article 31 of Law 21/2009 of 21 September and Article 12 of Resolution 19/2011 of 30 November.

2. Purpose

The aim of these guidance materials is to provide procedures to ensure there will be no interference with the operation of air navigation aids at the aerodrome that may be caused by the erection of structures, or aerodrome work activities within the vicinity of a navigation aid or associated cabling system.

3. References

MOZ-CAR Part 139
ICAO Annex 14 – Volume

4. Introduction

MOZ-CAR Part 139 specifies details of the procedures to be documented to control activities that may cause interference to radar and navigational aids located at the aerodrome. The regulation states that:

An operator shall in consultation with the IACM

- (a) prevent construction of any facilities on the aerodrome, which may adversely affect the operation of any electronic or visual navigation or air traffic service facility on the aerodrome;
- (b) as far as it is within the authority of the operator, prevent any interruption of visual or electronic signal of navigation aids.

5. Responsibilities

The aerodrome operator has overall responsibility for establishing procedures to ensure that activities or works under his direct or indirect control do not have an adverse impact on the safe operation of navigational aids.

In case of aerodrome works that may affect navigation aids, the Works Manager at the aerodrome, or any other staff member controlling any construction works at the aerodrome, is responsible for advising air navigation service provider (ANSP) of any works proposals that may affect the operation of navigational aids at the aerodrome, including any cables associated with the facilities.

The ANSP is responsible for the physical protection of its navigational aids located at the aerodrome. This may include appropriate fencing and warning signs to restrict entry to each site. ANSP is responsible for site maintenance of navigational aids.

6. Works Planning and Coordination

The aerodrome operator's nominees with responsibility for airport works are required to give prior notification to ANSP of:

- Work activities in the vicinity of navigational aids on the Airport which might effect the signals to and from those facilities; and
- Proposed excavation work within 3m of cables associated with the facilities.

This advice shall be provided formally during the planning stage of a Method of Works Plan (MOWP) or Permit to Commence Work (PERCOW). The aerodrome operator's designated person will prepare a (PERCOW) or a MOWP) for any activity that may affect aircraft operations by causing interference with a radar or navigation aid, or its signal to aircraft. Planning for such work shall include input from ANSP. ANSP shall establish any restrictions necessary. A copy of any MOWP or PERCOW issued for such works shall be forwarded to ANSP for advice.

The Works Manager and Works Supervisor shall ensure that all persons involved in works at the aerodrome understand and comply with the restrictions imposed to protect the radar, navigational aids, and their associated cabling system. This applies to workmen, sub-contractors, and any other organization carrying out works at the aerodrome. Where there is a possibility of interference to the radar or navigation aid signal due to transient obstacles, such as vehicles traveling on perimeter roads, signs displaying the appropriate warning or instruction shall be erected.

Vehicles and plant shall not enter the navigation aid restricted areas of the airside or any other adjacent locations without prior ANSP approval. Vehicles crossing near the navigation aids will maintain 30 km per hour to avoid signal interference.

7. Maintenance Works Affecting Radar and Navigation Aids

All ANSP personnel or contractors are required to abide by the security arrangements for gaining access into the airside.

The Aerodrome operator's designated person will contact ANSP where mowing works may affect navigation aid signals. The Maintenance Supervisor, who represents the Works Manager, will contact ANSP at least 24 hours prior to the works to ensure that navigational aids can be turned off when required e.g. not in Instrument Meteorological Conditions (IMC) or no flight testing will be in progress.

ANSP shall be notified for works affecting the DME/VOR at least 24 hours prior to works commencement. This will allow ANSP time to issue a NOTAM and to arrange for qualified personnel to be in attendance to deactivate or activate the facilities if or as required. Localizer navigational aids at the runway ends and other ILS navigational aids which may not have remote ANSP control shall require physical switching. Temporary decommissioning of a navigational aid for aerodrome works shall only be permitted in VMC (1500 ft ceiling and 5 km visibility)

As a guide in preparing for minor maintenance activity, work within the following areas can be expected to cause interference with the relevant navigation aid:

- Localizer - from 360 metres in front to 10 metres behind the localizer aerial, and 90m either side of the runway centreline;
- Glide path - from glide path building, an area extending 700 m directly in front of the building towards the landing aircraft, at a width of 175 m towards the associated runway centreline; and
- VOR - within a radius of 150 m of the VOR.

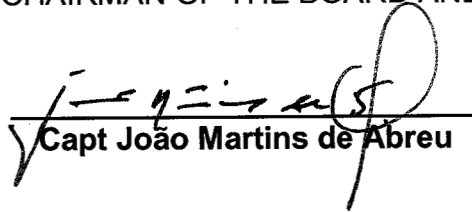
Any other major works or works involving a large amount of equipment, or tall equipment, should be referred to ANSP for advice on the effect on navigational aids.

8. Clearance and Locations For Radar And Navigation Aids

Clearances for radar and navigational aids facilities associated with the aerodrome shall be shown in the drawing plan to ensure that locating of the relevant radar and navigation aids is identified to enable their protection.

INSTITUTE OF CIVIL AVIATION OF MOZAMBIQUE

THE CHAIRMAN OF THE BOARD AND CEO


Capt João Martins de Abreu