

## CITC Technical Specification

# Specification for Emergency Beacons Equipment

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## Scope

This specification applies to emergency beacons.

Emergency beacons are radio transmitters used to locate airplanes, vessels or people in distress and in need of rescue.

## Enforcement

This specification shall enter into force on 20/07/2021.

Any previous version of this technical specification is withdrawn.

## General Requirements

- All equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.
- All telecommunications and radio terminal equipment must comply with the relevant technical specifications established by CITC. In addition, such equipment may be subject to regulations for Declaration of Conformity or registration. Please visit [www.citc.gov.sa](http://www.citc.gov.sa) for details.
- If more than one interface type is offered by a piece of equipment, each interface must meet the applicable technical specifications.
- It is mandatory that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

## Limits and conditions

Testing should be carried out to ensure compliance with the listed specifications.

Frequency band	Max Output Power or Magnetic Field	Usage	Standard	Comments
406.0 – 406.1 MHz	5 W	Emergency beacon	IEC 610972:2008 EN 302 152 IEC 60945:2002	
121.5 MHz	63 mW	Emergency beacon	EN 302 152 EN 301 489-3	

## Licensing Requirements

No licensing requirements apply.

## Additional Requirements

There is no additional requirements for this technical specification.

## References

The following referenced documents are indispensable for the application of this document. If no issue or revision number is quoted along with the title of a technical specification or standard, the latest published version should be used.

IEC 61097-2:2008

Global maritime distress and safety system (GMDSS) - Part 2: COSPAS-SARSAT EPIRB - Satellite emergency position indicating radio beacon operating on 406 MHz - Operational and performance requirements, methods of testing and required test results

IEC 60945:2002

Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results

EN 302 152-1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Satellite Personal Locator Beacons (PLBs) operating in the 406,0 MHz to 406,1 MHz frequency band; Part 1: Technical characteristics and methods of measurement

EN 301 489-1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.

EN 301 489-3

Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised

Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

## History

For reference, the latest versions of the technical specifications are published on the CITC website [www.citc.gov.sa](http://www.citc.gov.sa).

Description	Status	Date
	Issue 1	25/09/2017
	Issue 2	10/07/2021