

UK Interface Requirement 2034

**Radio Beacons of the maritime radiodetermination
service in the frequency band 283.5 kHz - 315 kHz**

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Section 1

References

- 1.1 Recommendation ITU-R M.588 - Characteristics of maritime radio beacons (Region 1)
- 1.2 Recommendation ITU-R M.823 - Technical characteristics of differential transmissions for global navigation satellite systems from maritime radio beacons in the frequency band 283.5 - 315 kHz in region 1 and 285 - 325 kHz in regions 2 & 3.

Section 2

Foreword

- 2.1 The Radio Equipment Directive (Directive 2014/53/EU) was implemented in the United Kingdom (UK) by the Radio Equipment Regulations 2017. In accordance with Articles 8 and 7 of Directive 2014/53/EU, this UK Interface Requirement contains the requirements for the licensing and use of Radio Beacons of the Maritime Radiodetermination Service in the specified frequency bands.
- 2.2 Nothing in this UK Radio Interface Requirement shall preclude the need for equipment to comply with Directive 2014/53/EU.
- 2.3 It is required by the Wireless Telegraphy Act 2006 that no radio equipment is installed or used in the UK except under the authority of a licence granted by or otherwise exempted by regulations made by Ofcom. It is a condition of such a licence or exemption regulations as appropriate that the equipment must meet the minimum requirements specified in this UK Interface Requirement for the stated equipment types and for the stated frequency bands.
- 2.4 The requirements given in the main body of this UK Radio Interface Requirement will apply to the licensing of Radio Beacons of the Maritime Radiodetermination Service in the frequency band 283.5 kHz - 315 kHz.
- 2.5 This UK Radio Interface Requirement will be revised as necessary, for example to follow:
 - i) current technology developments for reasons related to the effective and appropriate use of the spectrum in particular maximising spectrum utilisation; and
 - ii) changes to the available spectrum allocated for Radio Beacons of the Maritime Radiodetermination Service in the frequency band 283.5 kHz - 315 kHz.
- 2.6 All UK Radio Interface Requirements notified under Directive 2015/1535/EU will be published and will be made available free of charge from the Ofcom web-site at <http://www.ofcom.org.uk>
- 2.7 Further information on this UK Radio Interface Requirement can be obtained from the technical enquiry contact given at the back of this document.

Section 3

Minimum equipment requirements for operation within the UK

- 3.1 The minimum requirements in this document are made for reasons related to the effective and appropriate use of the radio spectrum, in particular maximising spectrum utilization,.
- 3.2 This UK Radio Interface Requirement gives a high-level description of how the spectrum in the UK is used for Radio Beacons of the Maritime Radiodetermination Service in the frequency band 283.5 kHz - 315 kHz. It does not prescribe technical interpretation of the 'essential requirements' of Directive 2014/53/EU.
- 3.3 This UK Radio Interface Requirement therefore stipulates the necessary equipment parameters for the licensing of Radio Beacons of the Maritime Radiodetermination Service in the frequency band 283.5 kHz - 315 kHz in the UK. Table 3.1 contains the relevant equipment parameters. These together with the 'essential requirements' detailed in Article 3.2 of Directive 2014/53/EU constitute the minimum equipment requirements for Radio Beacons of the Maritime Radiodetermination Service in the frequency band 283.5 - 315 kHz within the UK.
- 3.4 The technical parameters specified in the UK Radio Interface Requirement are applied to achieve the desired level of compatibility within the frequency band 283.5 kHz - 315 kHz and with other radiocommunications services, whilst promoting enterprise, innovation and competition.
- 3.5 This UK Radio Interface requirement provides the necessary technical information which facilitates access to the Maritime Radiodetermination Service spectrum by making clear the assumptions that are made in planning the use of the Maritime Radiodetermination Service spectrum in the UK. It is not the intention of this UK Radio Interface Requirement to duplicate or impose any additional 'essential requirements' of the Directive 2014/53/EU on products. Any specified parameters within this document are for the purpose of identifying product options and not as a national de facto product requirement.

Table 3.1: Minimum equipment requirements for Radio Beacons of the Maritime Radiodetermination Service in the Frequency Band 283.5 kHz - 315 kHz

1	Frequency band (or bands)	283.5 kHz – 315.0 kHz
2	Radio service	Maritime Radiodetermination Service
3	Application	Maritime Navigational Aids, Automatic Identification Systems (AIS) and Radar Licence
4	Channelling modulation	A1A, A2A, G1D. Integer multiple of 500 Hz if transmitting GNSS differential correction signals
5	Maximum transmit power limit	The radiated power shall be the minimum value necessary to give the desired field strength at the service range, not exceeding 50uV/m
6	Channel occupation rules	N/A
7	Duplex type/separation	N/A
8	Licensing Regime	Maritime Navigational Aids, Automatic Identification Systems (AIS) and Radar Licence
9	Additional essential requirements	N/A
10	Frequency planning assumptions	N/A
11	Reference	Recommendations ITU-R M.823 and ITU-R M.588
12	Remarks	N/A
13	Notification Number	2000/257/UK

Section 4

Additional performance parameters

(informative)

The assignments shall take into account the Master List of DGNSS Reference and Transmitting Stations in the Maritime Radionavigation (Radiobeacon) Band (283.5 kHz - 315 kHz Region 1, 285 kHz - 325 kHz Regions 2 and 3) published by the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA).

Section 5

Contact details

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Section 6

Document history

Version	Date	Changes
1.0	04 Jan 2001	Published
2.0	21 Apr 2005	Rebranded to Ofcom format.
3.0	January 2018	Replaced R&TTE Directive 1999/5/EC and Directive 98/34/EC with Radio Equipment Directive and Directive (EU) 2015/1535 respectively. Minor editorials