

**Office of Communications (Ofcom)**  
**Wireless Telegraphy Act 2006**



**SPECTRUM ACCESS 700 MHz**

This licence replaces licence 1248067 issued by the Office of Communications (Ofcom) on 01 June 2024 to Hutchison 3G UK Ltd<sup>1</sup>.

Licence no: **1388687/1**  
Date of issue: **5 June 2025**  
Date of commencement: **27 April 2021**  
Fee payment date: **27 April** (annually from 27 April 2041)

1. The Office of Communications (Ofcom) grants this wireless telegraphy licence ("the Licence") to

**Vodafone Limited**  
(Company registration number 1471587)  
**Vodafone House**  
**The Connection**  
**Newbury**  
**Berkshire**  
**RG14 2FN**

and

**Hutchison 3G UK Limited**  
(Company registration number 03885486)  
**450 Longwater Avenue**  
**Green Park**  
**Reading**  
**Berkshire**  
**RG2 6GF**

(hereafter "the Licensees"), to establish, install and use wireless telegraphy stations and/or wireless telegraphy apparatus as described in the schedule to this Licence (together "the Radio Equipment") subject to the terms set out below.

**Licence Term**

2. This Licence shall continue in force from the date of commencement until revoked by Ofcom or surrendered by the Licensees.

**Licence Variation and Revocation**

3. Pursuant to schedule 1 paragraph 8 of the Wireless Telegraphy Act 2006 ("the Act"), Ofcom may not revoke this Licence under schedule 1 paragraph 6 of the Act except:

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<sup>1</sup> This Licence reflects the terms and conditions issued to Hutchison 3G UK Ltd under licence number 1248067 which was concurrently traded to Vodafone Limited and Hutchison 3G UK Ltd under Trading Register Number TNR-2025-06-014 on 05 June 2025.

- (a) at the request, or with the consent, of the Licensees;
  - (b) if there has been a breach of any of the terms of this Licence;
  - (c) in accordance with schedule 1 paragraph 8(5) of the Act;
  - (d) if it appears to Ofcom to be necessary or expedient to revoke the Licence for the purpose of complying with a direction by the Secretary of State given to Ofcom under section 5 of the Act or section 5 of the Communications Act 2003;
  - (e) if, in connection with the transfer or proposed transfer of rights and obligations arising by virtue of the Licence, there has been a breach of any provision of regulations made by Ofcom under the powers conferred by section 30 of the Act<sup>2</sup>;
  - (f) for reasons related to the management of the radio spectrum, provided that in such a case the power to revoke may only be exercised after at least five years' notice is given in writing (such notice period must not expire before 26 April 2041); or
  - (g) if the Licensees have been found to the reasonable satisfaction of Ofcom to have been involved in any act, or omission of any act, constituting a breach of the Wireless Telegraphy (Licence Award) Regulations 2020 ("the Regulations").
4. Ofcom may only revoke or vary this Licence by notification in writing to the Licensees and in accordance with schedule 1 paragraphs 6, 6A and 7 of the Act.

### **Transfer**

5. This Licence may not be transferred. The transfer of rights and obligations arising by virtue of this Licence may however be authorised in accordance with regulations made by Ofcom under powers conferred by section 30 of the Act<sup>3</sup>.

### **Changes to Licensees details**

6. The Licensees shall give prior notice to Ofcom in writing of any proposed change to the Licensees' names and addresses as recorded in paragraph 1 of this Licence.

### **Fees**

7. From 27 April 2041, the Licensees shall each year pay to Ofcom the relevant fee(s) as provided in section 12 of the Act and the regulations made thereunder on or before the fee payment date shown above, or on or before such dates as are notified in writing to the Licensees.
8. The Licensees shall also pay interest to Ofcom on any amount which is due to Ofcom under the terms of this Licence or provided for in any regulations made by Ofcom under sections 12 or 13(2) of the Act from the date such amount falls due until the date of payment, at the then applicable Bank of England base rate. In accordance

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<sup>2</sup> These are regulations on spectrum trading.

<sup>3</sup> See Ofcom's website for the latest position on spectrum trading and the types of trade which are permitted.

with section 15 of the Act any such amount and any such interest is recoverable by Ofcom.

9. If the Licence is surrendered, revoked or varied, no refund, whether in whole or in part, of any amount which is due under the terms of this Licence, payable in accordance with the Regulations, or provided for in any regulations made by Ofcom under sections 12 and 13(2) of the Act will be made, except at the absolute discretion of Ofcom.

### **Radio Equipment Use**

10. The Licensees shall ensure that the Radio Equipment is established, installed and used only in accordance with the provisions specified in the schedule to this Licence. Any proposal to amend any detail specified in any of the schedule to this Licence must be agreed with Ofcom in advance and implemented only after this Licence has been varied or reissued accordingly.
11. The Licensees shall ensure that the Radio Equipment is operated in compliance with the terms of this Licence and is used only by persons who have been authorised in writing by the Licensees to do so and that such persons are made aware of, and of the requirement to comply with, the terms of this Licence.
12. The Licensees must ensure that all Radio Equipment is established, installed, modified and used only in accordance with the provisions specified in schedule 2 (EMF Licence Condition) of this Licence.

### **Access and Inspection**

13. The Licensees shall permit a person authorised by Ofcom:
  - (a) to have access to the Radio Equipment; and
  - (b) to inspect this Licence and to inspect, examine and test the Radio Equipment, at any and all reasonable times or, when in the opinion of that person an urgent situation exists, at any time to ensure the Radio Equipment is being used in accordance with the terms of this Licence.

### **Modification, Restriction and Closedown**

14. Any person authorised by Ofcom may require the Radio Equipment or any part thereof, to be modified or restricted in use, or temporarily or permanently closed down immediately if in the opinion of the person authorised by Ofcom:
  - (a) a breach of a term of the Licence has occurred; and/or
  - (b) the use of the Radio Equipment is, or may be, causing or contributing to undue interference to the use of other authorised radio equipment.
15. Ofcom may require any of Radio Equipment to be modified or restricted in use, or temporarily closed down either immediately or on the expiry of such period as may be specified in the event of a national or local state of emergency being declared. Ofcom may only exercise this power after a written notice has been served on the Licensees or a general notice applicable to holders of a named class of licence has been published.

## Geographical Boundaries

16. Subject to the requirements of any coordination procedures notified to the Licensees pursuant to paragraph 4 of Schedule 1 to this Licence, the Licensees are authorised to establish, install and use the Radio Equipment in the United Kingdom. For the avoidance of doubt, the United Kingdom includes the United Kingdom territorial sea (measured in accordance with section 1 of the Territorial Sea Act 1987) and does not include the Channel Islands or the Isle of Man.

## Interpretation

17. In this Licence:
- (a) the establishment, installation and use of the Radio Equipment shall be interpreted as establishment and use of wireless telegraphy stations and installation and use of wireless telegraphy apparatus as specified in section 8(1) of the Act;
  - (b) the expression “DTT Viewers” means viewers of digital terrestrial television services operating at frequencies below 694 MHz who suffer or may be likely to suffer undue interference from mobile services.
  - (c) the expressions “interference” and “undue interference” shall have the meanings given by section 115 of the Act;
  - (d) the expression “Scheme” means a scheme for the purpose of providing information and advice to DTT Viewers and assisting DTT Viewers to resolve undue interference suffered by them as a result of the Licensees’ use of the Radio Equipment, which meets the requirements in the Scheme Notice;
  - (e) the expression “Scheme Notice” means the notice notified by Ofcom to each licensee of the 694-790 MHz frequency range which either:
    - (i) confirms the provisional scheme submitted jointly by all such licensees by 6 July 2021;
    - (ii) confirms the provisional scheme submitted jointly by all such licensees by 6 July 2021 but with such changes as Ofcom considers necessary to meet the policy objectives in “Award of the 700 MHz and 3.6-3.8 GHz spectrum bands”; or
    - (iii) Ofcom has devised in the absence of any provisional scheme submitted jointly by all such licensees 6 July 2021 which Ofcom considers appropriate to meet the policy objectives in “Award of the 700 MHz and 3.6-3.8 GHz spectrum bands”,

and which at the date of this Licence is the notice set out in the [Guidance on 700 MHz band coexistence](#) and which may be amended from time to time with the prior written consent of Ofcom or by Ofcom on reasonable notice to all such licensees;

- (f) the expression “territorial sea” shall be determined in accordance with the Territorial Sea Act 1987;
- (g) the expressions “wireless telegraphy station” and “wireless telegraphy apparatus” shall have the meanings given by section 117 of the Act;
- (h) the schedule forms part of this Licence together with any subsequent schedule(s) which Ofcom may issue as a variation to this Licence at a later date; and
- (i) the Interpretation Act 1978 shall apply to this Licence as it applies to an Act of Parliament.

**Issued by Ofcom**

**Office of Communications**

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## **SCHEDULE 1 TO LICENCE NUMBER: 1388687/1**

**Schedule Date: 5 June 2025**  
**Licence category: Spectrum Access 700 MHz**

### **Description of Radio Equipment**

1. References in this schedule to the Radio Equipment are references to any wireless telegraphy station or wireless telegraphy apparatus that is established, installed and/or used under this schedule.

### **Interface Requirements for the Radio Equipment**

2. Use of the Radio Equipment shall be in accordance with the following Interface Requirement:

IR 2107: Terrestrial systems capable of providing electronic communications services in the 700 MHz band.

### **Special conditions relating to the Radio Equipment**

3.
  - (a) Subject to paragraphs 3(b) and (c) of this schedule, during the period that this Licence remains in force, unless consent has otherwise been given by Ofcom, the Licensees shall compile and maintain accurate written records of the following details relating to the Radio Equipment:
    - (i) postal address (including post code);
    - (ii) National Grid Reference, to at least 10m resolution;
    - (iii) antenna height (above ground level), type, and boresight bearing east of true north (if applicable);
    - (iv) radio frequencies which the Radio Equipment uses; and
    - (v) transmitted power expressed in dBm / 5 MHz EIRP per cell,and the Licensees must produce these records if requested by any person authorised by Ofcom.
  - (b) The conditions relating to the keeping of records contained in sub-paragraphs 3(a)(i), (ii) and (iii) of this Schedule shall not apply in respect of femtocell equipment and smart/intelligent low power repeater equipment.
  - (c) The conditions relating to the keeping of records contained in paragraph 3(a) of this Schedule shall not apply in respect of licence exempt radio equipment.
  - (d) The Licensees shall submit to Ofcom copies of the records detailed in sub-paragraph 3(a) above at such intervals as Ofcom may notify to the Licensees.

- (e) The Licensees shall submit to Ofcom in such manner and within such period as specified by Ofcom, such other information in relation to the Radio Equipment, or any wireless telegraphy station or wireless telegraphy apparatus which the Licensees are planning to use, as Ofcom may from time to time request. Such information may include, but is not limited to, information in relation to the radio frequency, transmitted power and date of first use for wireless telegraphy stations or wireless telegraphy apparatus to be established, installed or used within such timeframe and in such areas as Ofcom may reasonably request.
- (f) During the period this Licence remains in force, unless consent has otherwise been given in writing by Ofcom, the Licensees shall operate the Scheme and comply with its obligations in the Scheme Notice. The Licensees shall provide to Ofcom and any entity established as part of the Scheme, in such manner and at such times as they may reasonably require, such documents or other information as they may require for the purposes of the Scheme's operation, monitoring that operation and assessing its appropriateness and effectiveness.
- (g) In relation to any frequency between 738 MHz and 758 MHz within the Permitted Frequency Blocks (see paragraph 6 below) in any area in the United Kingdom, the Licensees shall only be authorised to use the Radio Equipment to transmit where it has:
  - (i) given Ofcom at least three months' (or such other period as Ofcom shall determine) written notice of the following specified matters and that notice period has expired. The specified matters are, in respect of the Radio Equipment the Licensees intend to use:
    - (a) the nature of the equipment and the purpose of its use;
    - (b) the extent of that use and the geographic areas in which it will occur;
    - (c) the date or dates on which the Licensees intend to begin using the Radio Equipment to transmit within the Permitted Frequency Blocks;
    - (d) such other information as Ofcom may specify; and
  - (ii) simultaneously given Arqiva at least three months' written notice of the date on which it intends to begin using the Radio Equipment to transmit within the Permitted Frequency Blocks and that such notice period has expired.

#### **Coordination at frequency and geographical boundaries and compliance with other procedures relating to interference**

4. The Licensees shall ensure that the Radio Equipment is operated in compliance with such coordination procedures as may be notified to the Licensees by Ofcom from time to time. The Licensees shall also ensure that they comply with any other procedures relating to the mitigation of interference as may be notified to the Licensees by Ofcom from time to time.

## International cross-border coordination

5. The Licensees shall ensure that the Radio Equipment is operated in compliance with such cross-border coordination and sharing procedures as may be notified to the Licensees by Ofcom from time to time.

## Permitted Frequency Blocks

6. Subject to the emissions permitted under paragraph 10 of this Schedule, the Radio Equipment may only transmit within the following frequency bands (the “Permitted Frequency Blocks”):

Downlink frequencies	Uplink frequencies
768 – 778 MHz	713 – 723 MHz

## Maximum power within the Permitted Frequency Blocks

7. Subject to any more restrictive limitations imposed by the coordination requirements notified by Ofcom in accordance with paragraphs 4 and 5 of this schedule, the power transmitted in the Permitted Frequency Blocks shall not exceed:

(a) Downlink Frequencies <i>Radio Equipment</i>	<i>Maximum mean power dBm / 5 MHz EIRP per antenna</i>
Base station*	64

- \* For femtocell base stations, power control must be applied to minimise interference to adjacent channels.

(b) Uplink Frequencies <sup>4</sup> <i>Radio Equipment</i>	<i>Maximum mean power</i>
Fixed or installed Radio Equipment*	23 dBm EIRP
Mobile or nomadic Radio Equipment*	23 dBm TRP

- \* The maximum mean power relates to the EIRP or TRP of a specific piece of Radio Equipment irrespective of the number of transmit antennas. This value is subject to a tolerance of up to + 2 dB, to take account of operation under extreme environmental conditions and production spread.

<sup>4</sup> Consumer user equipment will be authorised by means of a licence exemption under section 8 of the Wireless Telegraphy Act 2006

## Maximum power of base stations outside the Permitted Frequency Blocks

8. For transmissions on the downlink frequencies, the EIRP emanating from the Radio Equipment transmissions at any frequency outside the downlink frequencies of the Permitted Frequency Blocks, but within 738 – 788 MHz, shall not exceed:

<i>Frequency Range</i>	<i>Maximum mean EIRP limit dBm / 5 MHz EIRP per antenna</i>
-5 to 0 MHz offset from lower block edge 0 to 5 MHz offset from upper block edge	22
-10 to -5 MHz offset from lower block edge 5 to 10 MHz offset from upper block edge	18
Out of block baseline power limit (BS) < -10 MHz offset from lower block edge > 10 MHz offset from upper block edge	16

9. In addition, the EIRP emanating from the Radio Equipment transmissions at any frequency outside the downlink frequencies of the Permitted Frequency Blocks shall not exceed the higher (least stringent) of (a) the baseline requirements and (b) the transitional requirements for that frequency.

(a) Baseline requirements

<i>Frequency Range</i>	<i>Maximum mean EIRP limit</i>
470 – 694 MHz	-23 dBm / 8 MHz per cell
694 – 703 MHz	-32 dBm / 1 MHz per cell
703 – 733 MHz	-50 dBm / 5 MHz per cell
733 – 738 MHz	16 dBm / 5 MHz per antenna
788 – 791 MHz	14 dBm / 3 MHz per antenna
791 – 821 MHz	16 dBm / 5 MHz per antenna
832 – 862 MHz	-49 dBm / 5 MHz per cell

(b) Transitional requirements  
for a block with lower edge at 738 MHz

<i>Frequency Range</i>	<i>Maximum mean EIRP limit</i>
733 – 738 MHz	22 dBm / 5 MHz per antenna

for a block with lower edge at 743 MHz

<i>Frequency Range</i>	<i>Maximum mean EIRP limit</i>
733 – 738 MHz	18 dBm / 5 MHz per antenna

for a block with upper edge at 783 MHz

<i>Frequency Range</i>	<i>Maximum mean EIRP limit</i>
788 – 791 MHz	16 dBm / 3 MHz per antenna
791 – 796 MHz	17 dBm / 5 MHz per antenna

for a block with upper edge at 788 MHz

<i>Frequency Range</i>	<i>Maximum mean EIRP limit</i>
788 – 791 MHz	21 dBm / 3 MHz per antenna
791 – 796 MHz	19 dBm / 5 MHz per antenna
796 – 801 MHz	17 dBm / 5 MHz per antenna

## Maximum power of terminals outside the Permitted Frequency Blocks

10. For transmissions on the uplink frequencies, the EIRP emanating from the Radio Equipment transmissions at any frequency outside the uplink frequencies of the Permitted Frequency Blocks shall not exceed:

<i>Frequency Range</i>	<i>Maximum mean EIRP limit*</i>
470 – 694 MHz	-42 dBm / 8 MHz
694 – 698 MHz	-7 dBm / 4 MHz
698 – 703 MHz	2 dBm / 5 MHz

- \* The power limits are specified as equivalent isotropically radiated power (EIRP) for terminal stations designed to be fixed or installed and as total radiated power (TRP) for terminal stations designed to be mobile or nomadic. The maximum mean power relates to the EIRP or TRP of a specific piece of Radio Equipment irrespective of the number of transmit antennas.

## Interpretation of terms in this schedule

11. In this Schedule:

- (a) **dBm** means the power level in decibels (logarithmic scale) referenced against 1 milliwatt (i.e. a value of 0 dBm is 1 milliwatt);
- (b) **Downlink** means transmissions from a base station or repeater to a terminal station (handset);
- (c) **EIRP** means the equivalent isotropically radiated power. This is the product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna (absolute or isotropic gain), measured during the “on” part of the transmission;
- (d) **femtocell** means Radio Equipment transmitting on the downlink frequencies, which operates at a power not exceeding 24 dBm EIRP per carrier, and which is or will be used only by and under the control of the Licensees, following the establishment of a telecommunications link between the femtocell and a network of the Licensees;
- (e) **Fixed or installed** means used or installed at specific fixed points;
- (f) **Indoor** means a location inside a building or place in which the shielding will typically provide the necessary attenuation to protect wireless telegraphy against harmful interference;
- (g) **IR** means a United Kingdom Radio Interface Requirement notified by Ofcom in accordance with the Radio Equipment Regulations 2017, as amended by the Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019;
- (h) **lower block edge** means, in relation to each Permitted Frequency Block, the lowest frequency in that Permitted Frequency Block;

- (i) **measurement bandwidth** means the size of an individual spectrum segment within the specified frequency range that is used to measure compliance with the specified power limit;
- (j) **mobile or nomadic** means intended to be used while in motion or during halts at unspecified points;
- (k) **per antenna** means per radiating unit/component (irrespective of the number of radiating elements that make up that unit/component);
- (l) **per cell** means per specific piece of Radio Equipment. For a multi-sector base station, per cell refers to each one of the individual sectors irrespective of the number of transmit antennas;
- (m) **Permitted Frequency Blocks** has the meaning given to it in paragraph 6 of this Schedule;
- (n) **smart/intelligent low power repeater** means a repeater which operates with power not exceeding 24 dBm EIRP per carrier, which may be established by customers of the Licensees who have written agreements with the Licensees and:
- The Licensees have ultimate control of the repeater, i.e. each individual repeater can be disabled remotely by the Licensees;
  - The repeater operates only on the Licensees' frequencies and with their valid Public Land Mobile Network Identifier;
  - Must not cause undue interference to other spectrum users; and
  - The repeater only transmits on the uplink frequencies when actively carrying a call (voice, video or data) or signalling from serviced handsets;
- (o) **TRP** means the total radiated power. This is the integral of the power transmitted in different directions over the entire radiation sphere;
- (p) **Uplink** means transmissions from a terminal station (handset) to a base station; and
- (q) **upper block edge** means, in relation to each Permitted Frequency Block, the highest frequency in that Permitted Frequency Block.

## **SCHEDULE 2 TO LICENCE NUMBER: 1388687/1**

### **EMF Licence Condition**

**Schedule Date:** 5 June 2025

**Licence category:** Spectrum Access 700 MHz

#### **Sites which are not shared with another licensee**

1. The Licensees shall only establish, install, modify or use Relevant Radio Equipment if the total electromagnetic field exposure levels produced by the Licensees' On-Site Radio Equipment do not exceed the basic restrictions<sup>5</sup> in the relevant tables for general public exposure identified in the ICNIRP Guidelines<sup>6</sup> in any area where a member of the general public is or can be expected to be present when transmissions are taking place.

#### **Sites which are shared with another licensee**

2. In the case of a shared site where the Shared Site Exemption applies to the Licensees, the Licensees shall comply with paragraph 1 above.
3. In the case of a shared site where the Shared Site Exemption does not apply to the Licensees, the Licensees shall only establish, install, modify or use the Relevant Radio Equipment if:
  - (a) the total electromagnetic field exposure levels produced by the Licensees' On-Site Radio Equipment, together with
  - (b) the total electromagnetic field exposure levels produced by all other wireless telegraphy stations and wireless telegraphy apparatus operated by another licensee on the same site for which the Licensees can reasonably assume that a Shared Site Exemption does not apply,

do not exceed the basic restrictions<sup>7</sup> in the relevant tables for general public exposure identified in the ICNIRP Guidelines<sup>8</sup> in any area where a member of the general public is or can be expected to be present when transmissions are taking place.

#### **Emergency Situations**

4. The obligations in paragraphs 1, 2 and 3 above will not apply if the Relevant Radio Equipment is being used for the purpose of seeking emergency assistance or

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<sup>5</sup> Compliance with the reference levels for general public exposure identified in the ICNIRP Guidelines will ensure compliance with the basic restrictions.

<sup>6</sup> The relevant tables for general public exposure are identified in Ofcom's "Guidance on EMF Compliance and Enforcement".

<sup>7</sup> Compliance with the reference levels for general public exposure identified in the ICNIRP Guidelines will ensure compliance with the basic restrictions.

<sup>8</sup> The relevant tables for general public exposure are identified in Ofcom's "Guidance on EMF Compliance and Enforcement".

reporting and responding to an emergency situation (in the vicinity of that situation) including for search and rescue activities and maritime emergency communications<sup>9</sup>.

### Relationship with authorised transmission levels

5. The Licensees shall comply with paragraphs 1, 2 and 3 above notwithstanding the maximum transmission levels authorised in the Licence.

### Records

6. The Licensees shall keep, or shall procure that a third party shall keep, and shall make available to Ofcom on request, records (including the type of records identified in Ofcom’s “Guidance on EMF Compliance and Enforcement”) that demonstrate how it has complied with paragraphs 1, 2 and 3 above when Relevant Radio Equipment is established, installed, modified or used.

### Ofcom’s “Guidance on EMF Compliance and Enforcement”

7. When evaluating its compliance with paragraphs 1, 2 and 3 above, the Licensees shall take into account Ofcom’s “Guidance on EMF Compliance and Enforcement” that is in force at the relevant time.

### Interpretation

8. In this schedule:
  - (a) “**dB<sub>i</sub>**” means the ratio in dB (decibel) when comparing the gain of the antenna to the gain of an isotropic antenna. An isotropic antenna is a theoretical antenna which radiates power uniformly in all directions;
  - (b) “**EIRP**” means equivalent isotropically radiated power which is the product of the power supplied to an antenna and the absolute or isotropic antenna gain in a given direction relative to an isotropic antenna;
  - (c) “**ERP**” means effective radiated power which is the product of the power supplied to an antenna and its gain in a given direction relative to a half-wave dipole;
  - (d) “**general public**” means any person who is not: (a) the Licensee, owner, operator or installer of the Relevant Radio Equipment; or (b) acting under a contract of employment or otherwise acting for purposes connected with their trade, business or profession or the performance by them of a public function;<sup>10</sup>
  - (e) “**ICNIRP Guidelines**” means the version of the Guidelines published by the International Commission on Non-Ionizing Radiation Protection for limiting

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<sup>9</sup> Further information on emergency situations is set out in Ofcom’s “Guidance on EMF Compliance and Enforcement”.

<sup>10</sup> There is pre-existing health and safety legislation which already requires employers to protect workers from exposure to electromagnetic fields (“EMF”) including the following legislation specifically relating to EMF (as amended from time to time): The Control of Electromagnetic Fields at Work Regulations 2016, The Control of Electromagnetic Fields at Work Regulations (Northern Ireland) 2016 and The Merchant Shipping and Fishing Vessels (Health and Safety at Work) (Electromagnetic Fields) Regulations 2016.

exposure to electromagnetic fields which are identified in Ofcom’s “Guidance on EMF Compliance and Enforcement” that is in force at the relevant time.<sup>11</sup>

- (f) **“Licensees’ On-Site Radio Equipment”** means the Relevant Radio Equipment and any other wireless telegraphy station(s) and wireless telegraphy apparatus on the same site which transmits at powers higher than 10 Watts EIRP or 6.1 Watts ERP.<sup>12</sup>
- (g) **“Relevant Radio Equipment”** means all the Radio Equipment that is authorised by this Licence to transmit at powers higher than 10 Watts EIRP or 6.1 Watts ERP.<sup>13</sup>
- (h) **“Shared Site Exemption”** means any of the following three situations apply on a shared site in relation to the Licensees’ or another licensee’s wireless telegraphy station(s) or wireless telegraphy apparatus that is authorised to transmit at powers higher than 10 Watts EIRP or 6.1 Watts ERP:
- The first situation is that all of the licensees’ wireless telegraphy station(s) or wireless telegraphy apparatus on a shared site do not transmit at a combined total radiated power in any particular direction<sup>14</sup> that is higher than 100 Watts EIRP or 61 Watts ERP;<sup>15</sup>
  - The second situation is that the total electromagnetic field exposure levels produced by the licensees’ wireless telegraphy station(s) or wireless telegraphy apparatus in any area where a member of the general public is or can be expected to be present when transmissions are taking place is no more than 5% of the basic restrictions or 5% of the reference levels in the relevant tables for general public exposure identified in the ICNIRP Guidelines;<sup>16</sup>
  - The third situation is where the licensees’ wireless telegraphy station or wireless telegraphy apparatus has an antenna gain that is equal to or higher than 29 dBi and has a fixed beam;

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<sup>11</sup> Ofcom’s “Guidance on EMF Compliance and Enforcement” will initially require the Licensees to comply with the ICNIRP Guidelines for limiting exposure to time-varying electric, magnetic and electromagnetic fields (up to 300 GHz), published in: Health Physics 74(4):494-522, dated April 1998 and available at: <https://www.icnirp.org/cms/upload/publications/ICNIRPemfgdl.pdf> (“1998 Guidelines”) or the ICNIRP Guidelines for limiting exposure to electromagnetic fields (100 KHz to 300 GHz), published in: Health Physics 118(5): 483–524; 2020 and available at: <https://www.icnirp.org/cms/upload/publications/ICNIRPrfgdl2020.pdf> (“2020 Guidelines”). However, once work on the relevant standards explaining the methodology for assessing compliance with the 2020 Guidelines has progressed sufficiently, Ofcom will publish a public consultation on updating its “Guidance on EMF Compliance and Enforcement” to explain that going forward Ofcom will be requiring the Licensees to comply with the 2020 Guidelines only. Following this public consultation, Ofcom will publish an updated version of Ofcom’s “Guidance on EMF Compliance and Enforcement” on its website. Ofcom will follow the same process for any subsequent versions of the ICNIRP Guidelines.

<sup>12</sup> 10 Watts EIRP is equivalent to 6.1 Watts ERP. In linear units  $EIRP (W) = 1.64 \times ERP (W)$ ; in decibels  $EIRP (dB) = ERP (dB) + 2.15$ . Ofcom’s “Guidance on EMF Compliance and Enforcement” explains how the Licensees can determine if wireless telegraphy station(s) or wireless telegraphy apparatus “transmits at powers higher than 10 Watts EIRP or 6.1 Watts ERP”.

<sup>14</sup> For the purpose of this situation, the combined total radiated power is a simple sum of the radiated powers (in EIRP or ERP) of all of the licensees’ wireless telegraphy station(s) or wireless telegraphy apparatus on the shared site that transmits signals covering the same or overlapping areas.

<sup>15</sup> 100 Watts EIRP is equivalent to 61 Watts ERP.

<sup>16</sup> The relevant tables for general public exposure are identified in Ofcom’s “Guidance on EMF Compliance and Enforcement”.

- (i) **“shared site”** means a site that is shared by the Licensees and at least one other licensee for the purposes of establishing, installing, modifying or using wireless telegraphy stations or wireless telegraphy apparatus;
- (j) **“site”** means a physical structure, building, vehicle or moving platform;
- (k) **“wireless telegraphy apparatus”** has the meaning given to it in section 117 of the Wireless Telegraphy Act 2006; and
- (l) **“wireless telegraphy station”** has the meaning given to it in section 117 of the Wireless Telegraphy Act 2006.

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