



Application for the Issue or Amendment of a Permanent Earth Station Licence

Before completing this form please read Guidance Notes Pages 8-12

Please complete this form in BLOCK CAPITALS in dark ink or typescript.

Important: A Telecommunications Act licence may also be required, please see Guidance Notes. Page 8

Please note the technical information contained in this application form will be used in the co-ordination procedure with other users of the radio spectrum.

Please keep a copy of the completed application form.

SECTION A APPLICANT DETAILS

For amendments please quote your licence number

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Please give the full name of the Company or Authority to which the licence is to be issued.

Applicants address

Postcode

Address for correspondence
(if different from above)

Postcode

On which date will operations start?

day	month	year

and on which date (if known) will operations end?

day	month	year



SECTION D TRANSMITTING

Satellite Receiving Beam Designation

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Characteristics common to the following group (list) of assigned frequencies

C4a. Class of Station	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	C6. Polarisation	C3a. Assigned Frequency Band (kHz)	C8g. Maximum Aggregate Power
C4b. Nature of Service	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	<input style="width: 100%; height: 15px;" type="text"/>	Type	If linear, provide angle in degrees	+/- dBW
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Emissions common to the Assigned Frequencies listed below

C7a. Designation of Emission	C8a1/C8b1.*Maximum Peak Power	C8a2/C8b2.*Maximum Power Density	C8c1.Minimum Peak Power	C8c1.Minimum Power Density
	+/- dBW	+/- dBW/Hz	+/- dBW	+/- dBW/Hz
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SECTION E MODULATION CHARACTERISTICS

For any types of modulation please (where applicable) indicate the characteristics of energy dispersal.

see Note

FM For a carrier frequency modulated by a frequency division multi-channel telephone baseband (FDM FM) or by a signal that can be represented by a multi-channel telephony baseband.

What are the lowest and highest frequencies of the baseband and the rms frequency deviations of the test zone as a function of baseband frequency?

Lowest

Highest

Deviations

TV For a carrier frequency modulated by a television signal.

What are the standards of the television signal (including the standard used for colour) and the frequency deviation for the reference frequency of the pre-emphasis characteristic?

Signal standard

Colour standard

Frequency deviation

Please indicate where applicable the characteristics of the multiplexing of the video signal with the sound signal(s) or other signals.

PM For a carrier phase-shift modulated by a signal.

Please indicate the bit rate and the number of phases.

Bit rate

Number of phases

For all types of modulation, please provide such particulars as may be useful for an interference study i.e co-ordination.

MORE ON NEXT PAGE



If the Agency needs to obtain any further information about this application who may they contact?

Technical
Name _____

Telephone number: _____

Fax number: _____

Administrative
Name _____

Telephone number: _____

Fax number: _____

Would you like to have your organisation added to the list of Operators licensed to operate satellite services in the UK?

Yes No

The list may be made available to interested parties on request.

The information on this application form is being collected on the authority of the Secretary of State for Trade and Industry. The point of contact is the Enquiry Point at the:

Radiocommunications Agency

Wyndham House
189 Marsh Wall
London E14 9SX
Tel:020 7211 0300

The information given on this form is to be processed for the purpose of approving this application and issuing a Permanent Earth Station licence.

DECLARATION To be signed by all Applicants

I certify that the information on this form, and any other information given in support of this application, is correct to the best of my knowledge.

I declare that the information given on this form and any other information given in support of this application is correct and complete to the best of my knowledge and belief.

Signed _____

Status _____

(For example: Chairman, Managing Director, Company Secretary)

Name (BLOCK LETTERS) _____

Date _____

Checklist

Have you

- completed all sections of the form applicable to you?
- attached and listed diagrams required?
- signed the declaration?
- made a copy for reference?

Where to Return Your Form

Please return the completed form and attachments to:

RA2/FTSLU
Radiocommunications Agency
Wyndham House
189 Marsh Wall
London E14 9SX

Guidance Notes for the Licensing of a Permanent Earth Station in the Fixed Satellite Service

General

These notes and application form relate to the issue of a Wireless Telegraphy Act 1949 licence. A Telecommunications Act licence may also be required. The T Act Satellite Services Class Licence places certain restrictions on interconnection with the public network. Further advice can be obtained by writing to:

Department of Trade and Industry,
Communications and Information Industries
Directorate,
151 Buckingham Palace Road,
London SW1W 9SS

Notes on completing the Form RA362

In the case of a private firm which is not a Limited Company, the full name of each partner or sole trader should be given.

There may be insufficient space on the Form to answer particular questions, in such cases the appropriate section should be photocopied and added to the Form.

The processing of the application may be delayed if any of the details given on the Form are not complete or correct.

Any amendment to your licence requires the prior consent of the Secretary of State. If you are applying for an **amendment** to your current licence, you need to complete all questions.

Section B

Name of the Earth Station	Indicate the name by which the Earth Station will be known.
Horizon Elevation Diagram attached	Enter a Figure number of the diagram indicating the horizon elevation angle for each azimuth around the earth station; the horizon elevation angle is the angle viewed from the centre of the earth station antenna between the horizontal plane and a ray that grazes the visible physical horizon in the direction concerned.
Operating Angles	Enter the planned range of operating azimuthal angles. These angles are to be calculated for the nominal orbital longitude, taking into account the tolerances.
Associated Space Station	Indicate the name of the associated space station with which communication is to be established as registered with the IFRB.
Nominal Orbital Longitude	Enter the nominal longitude of the orbital position of that of the satellite expressed in decimal degrees E or W (the value should not exceed 180 Degrees).

Section C

Type of Antenna	ie Cassegrain/Gregorian etc.
Maximum Isotropic Gain	Enter the gain (G_i : see RRSI.160a) of the antenna in the direction of maximum radiation, expressed in dBi.
Beamwidth	Enter the total beamwidth at the mean half-power points of the main lobe, expressed in decimal degrees. Describe in detail in attachment if not symmetrical.

Radiation Pattern

If a reference radiation pattern cannot be indicated by one of the symbols below, or the measured radiation diagram of the antenna is available, give the relevant information in an attachment. If an attachment is provided, enter a figure number identifying its presence.

Indicate the reference radiation pattern, preferably by means of the following symbols or similar symbols not exceeding 12 characters.

Symbol	Description of the Radiation Pattern
REC-465	Current version of ITU-R Recommendation 465: "Reference earth station radiation pattern for use in coordination and interference assessment in frequency range from 2 to about 30 GHz."
REC-580	Current version of ITU-R Recommendation 580: "Radiation diagrams for use as design objectives for antennas of earth stations operating with geostationary satellites."
AP28	Point 4, Annex II of Appendix S7. Note: This radiation diagram is identical to that in Annex III to Appendix S8.
29-25LOG(FI)	Represents a reference radiation pattern similar to that in ITU-R Rec.465 with side lobe radiation reduced by 3dB.
27-25LOG(FI)	As above with side lobe radiation reduced by 5dB.

Section D

Satellite Receiving Beam Designation

Enter the receiving beam designation by a symbol consisting of up to four characters. For practical reasons, there are different approaches for the designation of the beam, it may consist of:

(a) number such as 1, 2, 3, etc., which refer to the number of the figure representing the corresponding antenna gain contour published in the relevant Special Section; or

(b) number such as 195, which identify a beam having a maximum gain of 19.5dB; or

(c) a symbol of up to three letters (or a letter and a figure), which is used to represent the abbreviated beam name, such as G for global, NWQ for North West Quadrant, WH for West Hemisphere, Z1 for Zone 1, O for Omnidirectional.

For steerable beams, the last character shall always be the letter "R".

Class of station/Nature of service	Indicate the appropriate class of station and the nature of service using the symbols given in Tables Nos. 6A1 and 6B1 respectively of the Preface to the IFL, the SRS and the WIC. Up to four pairs of values can be provided.
Polarisation	Enter the symbol for the type of polarisation in the first box (see symbols for the type of polarisation in Table No. 9D1 of the Preface to the IFL, the SRS and the WIC). In the case of linear polarisation (symbol "L"), indicate in the second box the angle (in degrees) measured counter-clockwise in a plane normal to the beam axis from the equatorial plane to the electric vector of the waves as seen from the satellite.
Assigned frequency band	Enter the bandwidth of the assigned frequency band as defined in RR.S1.147 expressed in kHz. The assigned frequency band should in no case exceed the bandwidth of a single satellite transponder.
Maximum aggregate power	Enter the maximum aggregate power (dBW) of all carriers supplied to the input of the antenna. This information applies only to the case of a receiving satellite antenna beam operating with a transmitting associated earth station.
Designation of emission	Indicate the necessary bandwidth (RR.S1.152) and class of emission (RR.S1.139) in accordance with Article 4 and Appendix 6; see also IFRB Circular-letters No. 457 of 2 June 1980 and No. 511 of 8 July 1982.
Maximum peak power	Enter the appropriate sign (+ or -) and the maximum value of the total peak envelope power (RR.S1.157), expressed in dBW, supplied to the input of the antenna for each corresponding emission. Note: If the maximum values of peak envelope power are being provided for individual carriers, they should be of type C8a1. If the notification does not concern individual carriers (e.g. as in spread spectrum applications) provide a general designation of emission (item C7a) and total peak power values of type C8b1.
Maximum power density	Enter the appropriate sign (+ or -) followed by the value of the maximum power density per Hertz (expressed in dBW/Hz) supplied to the input of the antenna averaged over the worst 4 kHz band for carriers below 15 GHz, or averaged over the worst 1 MHz band for carriers above 15 GHz. For narrow band carriers with a necessary bandwidth (RR.S1.152) less than the reference bandwidth, the peak power should be averaged over the reference bandwidth (4 kHz or 1 MHz) to obtain this value of maximum power density.

Maximum power density (continued)	Note: If the values of maximum power density are being provided for individual carriers, they should be of type C8a2. If the notification does not concern individual carriers (e.g. as in spread spectrum applications) provide a general designation of emission (item C7a) and maximum power density values of type 8b2.
Minimum peak power	Enter the appropriate sign (+ or -) and the minimum value of the peak envelope power (RR.S1.157), expressed in dBW, supplied to the input of the antenna for each corresponding emission (carrier type).
Minimum power density	Enter the appropriate sign (+ or -) followed by the value of the minimum power density per Hertz (expressed in dBW/Hz) supplied to the input of the antenna for each corresponding emission (carrier type) averaged over the worst 4 kHz band for carriers below 15 GHz, or averaged over the worst 1 MHz band for carriers above 15 GHz. For narrow band carriers with a necessary bandwidth (RR.S1.152) less than the reference bandwidth, the peak power should be averaged over the reference bandwidth (4 kHz or 1 MHz) to obtain this value of minimum power density.
Assigned frequency	Enter the assigned frequency as defined in RR.S1.148 expressed in kHz up to 28 000 kHz inclusive, in MHz above 28 000 kHz to 10 500 MHz inclusive, and in GHz above 10 500 MHz, and enter the letter k, M or G, as appropriate.

SECTION F

Satellite Transmitting Beam Designation	Enter the transmitting beam designation by a symbol consisting of up to ten characters. For practical reasons, there are different approaches for designation of the beam. It may consist of: <ul style="list-style-type: none"> a) number such as 1,2,3 etc. which refer to the number of the figures representing the corresponding antenna gain contour published in the relevant Special Section; or b) number such as 195, which identify a beam having a maximum gain of 19.5dB; or c) a symbol of up to three letters (or a letter and a figure), which is used to represent the abbreviated beam name, such as G for Global, NWQ for North West Quadrant, WH for West Hemisphere, Z1 for Zone 1, O for Omnidirectional. d) for steerable beams, the last character shall always be the letter 'R'.
Class of station/Nature of service	Indicate the appropriate class of station and the nature of service using the symbols given in Tables Nos. 6A1 and 6B1 respectively of the Preface to the

IFL, the SRS and the WIC. Up to four pairs of values can be provided.

Polarisation Enter the symbol for the type of polarisation in the first box (see symbols for the type of polarisation in Table No. 9D1 of the Preface to the IFL, the SRS and the WIC). In the case of linear polarisation (symbol "L"), indicate in the second box the angle (in degrees) measured counter-clockwise in a plane normal to the beam axis from the equatorial plane to the electric vector of the waves as seen from the satellite.

Assigned frequency band Enter the bandwidth of the assigned frequency band as defined in RR.S1.147 expressed in kHz. The assigned frequency band should in no case exceed the bandwidth of a single satellite transponder.

Receiving system noise temperature Enter the total receiving system noise temperature expressed in kelvins, referred to the output of the space station receiving antenna.

Designation of Emission Is made up of three parts, Bandwidth (four characters), Emission (three characters) & Description of Emission (two characters). This makes a nine character emission code. See Guide to Class of Emissions RA97.
e.g. 30MOF8FHN is 30MO = 30MHz, F = Frequency modulated, 8 = Composite system with one or more channels containing analogue information, F = Television (video), H = Sound of broadcasting quality (stereophonic or quadrophonic), N = No multiplexing employed.
Indicate the necessary bandwidth (RR.S1.152) and class of emission (RR.S1.139) in accordance with Article 4 and Appendix 6; see also IFRB Circular-letters No. 457 of 2 June 1980 and No. 511 of 8 July 1982.

C/N objective (total-clear sky) Enter the required carrier to noise ratio, in decibels, for the overall link for each carrier when clear sky propagation conditions apply.

Assigned frequency Enter the assigned frequency as defined in RR.S1.148 expressed in kHz up to 28 000 kHz inclusive, in MHz above 28 000 kHz to 10 500 MHz inclusive, and in GHz above 10 500 MHz, and enter the letter k, M or G, as appropriate.

Radiation Hazard

Information on this matter can be obtained from the local Area Office of HM Factory Inspectorate. The address and telephone number may be found under "Health and Safety Executive" in the telephone directory.

Enquiries

If you have any queries in completing the application form or require further

information please contact:

RA2/FTSLU

Radiocommunications Agency

Wyndham House

189 Marsh Wall

London E14 9SX

Tel: 020 7211 0300

Fax: 020 7211 0112

Website: www.radio.gov.uk