

Ofcom application form OfW101

Application for the Issue or Variation of a Transportable Earth Station (TES) Licence

Please ensure this form is signed and dated at the bottom and use capitals throughout.

Before completing this form please read the Guidance Notes on pages 6-8

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.

1 Applicant details

Is this application

(Tick **one** box only.)

for a new annual licence?

for a short-term licence?

for an addition to an existing annual licence?

If so please quote your licence number

to supersede existing licence details?

If so please quote your licence number and give further details below

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

Applicant's address

Address

Postcode

Address for correspondence (if different from above)

Address

Postcode

Telephone

E-mail address

Please nominate an e-mail address to which clearance documentation can be sent by the online clearance tool, e-Flatco

Characteristics of the transmitting antenna

Type of antenna – Cassegrain/Gregorian etc.

Size of antenna

Metres				

Maximum isotropic gain

dBi			
	*		

Beamwidth

Degrees			
	*		

Radiation pattern

(give reference pattern or provide diagram)

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See figure no:

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3 Modulation characteristics

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

FM For a carrier frequency modulated by a frequency division multi-channel telephone base band (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

PM For a carrier phase – shift modulated by a digital signal

Please indicate the bit rate and the number of phases.

Bit rate

Number of phases

4 Contact details

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

Technical name

E-mail address

Telephone number

Fax number

Administrative name

E-mail address

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 point of contact is:

Corporate Customer Support Team
Ofcom Licensing Centre
Office of Communications
Riverside House
2a Southwark Bridge Road
London SE1 9HA

Tel: 020 7981 3995 Fax: 020 7981 3060
www.ofcom.org.uk

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

5 Declaration to be signed by all applicants

I declare that all the information that I have provided in this application form is correct, to the best of my knowledge and belief.

Signature of applicant

Name of applicant (BLOCK CAPITALS)

Position of applicant in organisation (if applicable)

(Partners are taken to be signing on behalf of all partners)

Date of signature

6 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?

7 Where to send your form

Please return the completed form and attachments to:

Corporate Customer Support Team
Ofcom Licensing Centre
Office of Communications
Riverside House
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London SE1 9HA

Tel: 020 7981 3995 Fax: 020 7981 3060
www.ofcom.org.uk

Copies of the form and any attachments can be e-mailed to:
satellite.licences@ofcom.org.uk or faxed to: 020 7981 3060

Guidance Notes for a Transportable Earth Station (TES) in the Fixed Satellite Service

General

These notes and application form relate to the issue of a Wireless Telegraphy Act 2006 licence.

Notes on completing this form

In the case of a private firm which is not a Limited Company, the full name of each partner 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 variation to your licence requires the prior consent of Ofcom. If you are applying for a variation to your current licence, you need to complete all questions.

2 Station details

All emissions are to be contained in the frequency band 13.78 to 14.50 GHz.

Designation of Emission

Is made up of three parts, Bandwidth (four characters), Emission (three characters) and Description of Emission (two characters). This makes a nine character emission code. See Guide to Class of Emissions, OfW84.

e.g. 30M0F8FHN is **30M0** = 30 MHz, **F** = Frequency modulated, **8** = Composite system with one or more channels containing analogue information, **F** = Television (video), **H** = Sound of broadcasting quality (stereophonic or quadrasonic), **N** = No multiplexing employed.

Total Peak Power

Enter the appropriate sign (+ or -) and the value of the total peak envelope power (RR151) expressed in dBW for the corresponding emission.

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 narrow band carriers with a necessary bandwidth (RR146) less than the reference bandwidth, the peak power should be averaged over the reference bandwidth (4 kHz) to obtain this value of maximum power density. The most recent version of ITU-R Report 792 should be used to the extent applicable in calculating the maximum power density per Hz.

Type of Antenna

i.e. Cassegrain etc.

Maximum Isotropic Gain

Enter the gain (Gi: see RR154) 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 unavailable, 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 28. Note: This radiation diagram is identical to that in Annex III to Appendix 29.
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.

Radiation Hazard

Applicants are advised to obtain information concerning safety precautions relating to intense radio frequency radiation 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.

Once the application form has been processed and a licence issued, TES operators may access the online facility e-Flatco and must obtain clearance for operation at the intended location prior to any transmission taking place. More information can be found at the Ofcom website and at www.tes-clearance.radio.gov.uk

Enquiries

If you have any questions about completing the application form or require further information please contact:

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