



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

Before completing this form please read the Guidance Notes

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.

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.

Applicant's address

Postcode

Address for correspondence
(if different from above)

Postcode

On which date will TES operations start?

day	month	year

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

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 Transportable 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.

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

**Wireless Telegraphy Act 1949
Guidance Notes
Licensing of a Transportable 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

Section B

All emissions are to be contained in the frequency band 14.00 to 14.50 GHz.

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.

eg. 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 quadraphonic), **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

ie Cassegrain etc.

Notes on completing the Form RA361

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 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.

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	<p>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.</p> <p>Indicate the reference radiation pattern, preferably by means of the following symbols or similar symbols not exceeding 12 characters.</p> <table border="1"> <thead> <tr> <th>Symbol</th> <th>Description of the Radiation Pattern</th> </tr> </thead> <tbody> <tr> <td>REC-465</td> <td>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."</td> </tr> <tr> <td>REC-580</td> <td>Current version of ITU-R Recommendation 580: "Radiation diagrams for use as design objectives for antennas of earth stations operating with geostationary satellites."</td> </tr> <tr> <td>AP28</td> <td>Point 4, Annex II of Appendix 28. Note: This radiation diagram is identical to that in Annex III to Appendix 29.</td> </tr> <tr> <td>29-25LOG(FI)</td> <td>Represents a reference radiation pattern similar to that in ITU-R Rec.465 with side lobe radiation reduced by 3dB.</td> </tr> <tr> <td>27-25LOG(FI)</td> <td>As above with side lobe radiation reduced by 5dB.</td> </tr> </tbody> </table>	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.
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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."												
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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.

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