

Thirty-First Schedule to Decision No. MCA/D-22-4662

Apparatus General Authorisation for High e.i.r.p. Satellite Terminals (HEST) Operating with Geostationary Satellites and in the Frequency Bands 10.7-12.75 GHz or 19.7-20.2 GHz and 14-14.25 GHz or 29.5-30 GHz

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Revision History of the Thirty-First Schedule High e.i.r.p. satellite terminals operating with geostationary satellites and in the frequency bands 10.7-12.75 GHz or 19.7-20.2 GHz and 14-14.25 GHz or 29.5-30 GHz

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This Schedule shall be read and construed as one with Part I and Part II of Decision No. MCA/D/22-4662

Adopted pursuant to Article 30A of the Electronic Communications (Regulation) Act (Cap. 399) establishing the radiocommunications apparatus general authorisation



Article 1 – Applicability

This apparatus general authorisation applies to any person installing or using a high e.i.r.p. satellite terminal operating with geostationary satellites and in the frequency bands 10.7-12.75 GHz or 19.7-20.2 GHz and 14-14.25 GHz or 29.5-30 GHz or any apparatus intended to be used as a component part of that apparatus.

Article 2 – Interpretation

In this Schedule unless the context otherwise requires:

- "ECC Report 272" means the report developed by the Electronic Communications Committee of CEPT on earth stations operating in the frequency bands 4-8 GHz, 12-18 GHz and 18-40 GHz in the vicinity of aircraft;
- (2) "High e.i.r.p. satellite terminal" or "HEST" means radiocommunications apparatus operating with geostationary satellites and with an e.i.r.p. up to 60 dBW;
- (3) "HIRF" means high intensity radiated field; and
- (4) "Time Division Multiple Access" or "TDMA" means a transmission technique involving the multiplexing of many time slots onto the same time payload.

Article 3 – Minimum technical parameters

- (1) Unless otherwise specified in the National Frequency Plan, HEST shall operate with geostationary satellites as part of the fixed-satellite service within the frequency bands 10.70-12.75 GHz or 19.7-20.2 GHz (space-to-Earth) and 14.00-14.25 GHz or 29.5-30.00 GHz (Earth-to-space) and the broadcasting-satellite service within the frequency bands 11.70-12.50 GHz (space-to-Earth) under the control of a satellite system.
- (2) In using a HEST, compliance with aircraft HIRF protection criteria based on ECC Report 272, using maximum HIRF field strength of 190 V/m within the 14.00-14.25 GHz band and 150 V/m in the 29.50-30.00 GHz band shall be ensured.
- (3) The e.i.r.p. of HEST shall be limited to 60 dBW and if the HEST is operating within TDMA networks the aforesaid e.i.r.p. shall be respected after taking into consideration the duty cycle:¹

¹ Refer to sections 3.3 and 3.4 of ECC Report 272.



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Provided that when an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the aforesaid e.i.r.p. level shall correspond to the sum of all simultaneous emissions from the antenna on the main lobe.