

under which the individual user transceivers will operate.

(b) Transceiver units associated with the non-voice, non-geostationary mobile-satellite service may not be operated on civil aircraft. All portable or hand-held transceiver units (including transceiver units installed in other devices that are themselves portable or hand-held) having a receiver operating in the 137–138 MHz band shall bear the following statement in a conspicuous location on the device: “This device may not be operated while on board a civil aircraft. It must be turned off at all times while on board such an aircraft.” This subsection shall not apply to transceiver units whose receivers are incapable of radiating in the 108–137 MHz frequency bands.

(c) Transceiver units in this service are authorized to communicate with and through U.S. authorized space stations only. No person shall transmit to a space station unless the specific transmission is first authorized by the space station licensee or by a service vendor authorized by that licensee.

(d) Any transceiver unit associated with this service will be deemed, when communicating with a particular non-voice, non-geostationary mobile-satellite service system pursuant to paragraph (c) of this section, to be temporarily associated with and licensed to the system operator or service vendor holding the blanket earth station license awarded pursuant to §25.115(d). The domestic earth station licensee shall, for such temporary period, assume the same licensee responsibility for such transceiver as if such transceiver were regularly licensed to it.

[58 FR 68059, Dec. 23, 1993]

§25.136 Operating provisions for earth station networks in the 1.6/2.4 GHz mobile-satellite service.

In addition to the technical requirements specified in §25.213, earth stations operating in the 1.6/2.4 GHz Mobile-Satellite Service are subject to the following operating conditions:

(a) User transceiver units associated with the 1.6/2.4 Mobil-Satellite service may not be operated on civil aircraft unless the earth station has a direct physical connection to the aircraft Cabin Communication system.

(b) User transceiver units in this service are authorized to communicate with and through U.S. authorized space stations only. No person shall transmit to a space station unless the user transceiver is first authorized by the space station licensee or by a service vendor authorized by that licensee, and the specific transmission is conducted in accordance with the operating protocol specified by the system operator.

(c) Any user transceiver unit associated with this service will be deemed, when communicating with a particular 1.6/2.4 GHz Mobile-Satellite Service system pursuant to paragraph (b) of this section, to be temporarily associated with and licensed to the system operator or service vendor holding the blanket earth station license awarded pursuant to Section 25.115(d). The domestic earth station licensee shall, for this temporary period, assume the same licensee responsibility for the user transceiver as if the user transceiver were regularly licensed to it.

[59 FR 53327, Oct. 21, 1994, as amended at 61 FR 9945, Mar. 12, 1996]

§25.137 Application requirements for earth stations operating with non-U.S. licensed space stations.

(a) Earth station applicants or entities filing a “letter of intent” or “Petition for Declaratory Ruling” requesting authority to operate with a non-U.S. licensed space station to serve the United States must attach an exhibit with their FCC Form 312 application with information demonstrating that U.S.-licensed satellite systems have effective competitive opportunities to provide analogous services in:

(1) The country in which the non-U.S. licensed space station is licensed; and

(2) All countries in which communications with the U.S. earth station will originate or terminate. The applicant bears the burden of showing that there are no practical or legal constraints that limit or prevent access of the U.S. satellite system in the relevant foreign markets. The exhibit required by this paragraph must also include a statement of why grant of the application is in the public interest. This paragraph shall not apply with respect to requests for authority to operate using a non-U.S. licensed satellite

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that is licensed by or seeking a license from a country that is a member of the World Trade Organization for services covered under the World Trade Organization Basic Telecommunications Agreement.

(b) Earth station applicants, or entities filing a "letter of intent," or "Petition for Declaratory Ruling," requesting authority to operate with a non-U.S. licensed space station must attach to their FCC Form 312 an exhibit providing legal, financial, and technical information for the non-U.S. licensed space station in accordance with part 25 and part 100 of this Chapter. If the non-U.S. licensed space station is in orbit and operating, the applicant need not include the financial information specified in §§25.114(c)(17) and (c)(18) of this part. If the international coordination process for the non-U.S. licensed space station has been completed, the applicant need not include the technical information specified in §§25.114(c)(5) through (c)(11) and (c)(14) of this part, unless the technical characteristics differ from the characteristics established in that process.

(c) A non-U.S. licensed satellite system seeking to serve the United States

can be considered contemporaneously with other U.S. satellite systems if it is:

- (1) In orbit and operating;
- (2) Has a license from another administration; or
- (3) Has been submitted for coordination to the International Telecommunication Union.

[62 FR 64172, Dec. 4, 1997, as amended at 64 FR 61792, Nov. 15, 1999; 65 FR 16327, Mar. 28, 2000]

§ 25.138 Blanket licensing provisions of GSO FSS Earth Stations in the 18.58-18.8 GHz (space-to-Earth), 19.7-20.2 GHz (space-to-Earth), 28.35-28.6 GHz (Earth-to-space) and 29.5-30.0 GHz (Earth-to-space) bands.

(a) All applications for a blanket earth station license in the GSO FSS in the 18.58-18.8 GHz, 19.7-20.2 GHz, 28.35-28.6 GHz and 29.5-30.0 GHz bands that meet the following requirements shall be routinely processed:

(1) GSO FSS earth station antenna off-axis EIRP spectral density for co-polarized signals shall not exceed the following values, within ±3° of the GSO arc, under clear sky conditions:

18.5-25log(θ)-10log(N) ...	dBW/40kHz	.....	for 2.0° ≤ θ ≤ 7°
-2.63-10log(N)	dBW/40kHz	.....	for 7° ≤ θ ≤ 9.23°
21.5-25log(θ)-10log(N) ...	dBW/40kHz	.....	for 9.23° ≤ θ ≤ 48°
-10.5-10log(N)	dBW/40kHz	.....	for 48° < θ ≤ 180°

Where:

θ is the angle in degrees from the axis of the main lobe; for systems where more than one earth station is expected to transmit simultaneously in the same bandwidth, e.g., CDMA systems,

N is the likely maximum number of simultaneously transmitting co-frequency earth

stations in the receive beam of the satellite; N=1 for TDMA and FDMA systems.

(2) GSO FSS earth station antenna off-axis EIRP spectral density for co-polarized signals shall not exceed the following values, for all directions other than within ±3° of the GSO arc, under clear sky conditions:

21.5-25log(θ)-10log(N) ...	dBW/40kHz	.....	for 3.5° ≤ θ ≤ 7°
0.37-10log(N)	dBW/40kHz	.....	for 7° < θ ≤ 9.23°