

## **TECHNICAL REQUIREMENTS**

**To the Performance of the Electronic Communication Networks of the Fixed-satellite and Mobile-satellite Radio Services and Related Equipment  
Adopted by Decision No.1475 dated 20.12.2007 of the Communications Regulation Commission, Promulgated in State Gazette, Issue 8 dated 25.01.2008, in force from 25.01.2008**

### **Chapter I General**

**Art. 1.** The technical requirements determine the parameters and characteristics of the electronic communication networks of fixed-satellite and mobile-satellite radio services and the related equipment for carrying out electronic communications.

**Art. 2.** The undertakings perform their activity through electronic communication networks of the fixed-satellite and mobile-satellite radio service within radio frequency bands allocated for these radio services by the National Plan for Allocation of the Radio Frequency Spectrum. The radio frequency bands allocated to the fixed-satellite radio service are used also as feeder links for other mobile-satellite and broadcasting satellite radio services, and such usage is regulated by relevant notes in the National Plan for Allocation of the Radio Frequency Spectrum.

**Art. 3.** Provision of electronic communications through electronic communication networks of fixed-satellite and mobile-satellite radio service is made within the radio frequency bands and in compliance with the technical requirements and parameters determined in Appendix № 1.

**Art. 4.** The rules for provision of electronic communication through electronic communication networks of fixed-satellite and mobile-satellite radio service are stated in Appendix № 2.

### **Chapter II**

#### **General Requirements for Granting of Individually Assigned Scarce Resource – Radio Frequency Spectrum**

**Art. 5.** The electronic communication networks of the fixed-satellite and/or mobile-satellite radio services can use satellite capacity only from satellite systems coordinated and notified in accordance with the procedures of the International Telecommunication Union (ITU) Radio Regulations, called hereinafter “Radio Regulations”.

**Art. 6.** In order to assign scarce resource – radio frequency spectrum for provision of electronic communication through electronic communication networks of the fixed-satellite or mobile-satellite radio services it is necessary to enter into a preliminary agreement with satellite capacity provider conforming to the requirements as per Appendix № 1.

### **Chapter III**

#### **Technical Parameters of Electronic Communication Networks of Fixed-satellite and Mobile-satellite Radio Services and Related Equipment**

**Art. 7.** Electronic communications through networks as per Art. 1 shall be provided in compliance with the standards specified in Appendix № 3, and other standards adopted as applicable by the Communications Regulation Commission, called hereinafter “Commission”.

**Art. 8.** When building the Earth stations the antenna location should be ensured to be out of shelter towards the satellite in the close and distant zone in the antenna emitting direction.

**Art. 9.** (1) Electronic communications through networks as per Art. 1 shall be performed only through technically sound radio equipment which have been accessed and certified for

compliance and released to the market in compliance with the Technical Requirements for Products Act and the Ordinance for the Essential Requirements and Conformity Assessment of Radio Equipment and Terminal Telecommunication Equipment.

(2) When providing electronic communications through the networks as per Art. 1 undertakings shall:

1. Install, maintain and utilize the radio equipment only in a manner and designation determined by the manufacturer so as to guarantee protection of environment and human life and health when performing normally, as well as in state of fault;

2. Not change the technical characteristics of the used radio equipment determined by the manufacturer;

3. Not perform electronic communications containing misleading signs and/or signals for help, disaster, failure, accident, or alarm.

(3) Unwanted emissions, as well as other radio interference shall not exceed the limit values determined in the applicable standards as per Appendix № 3.

**Art. 10.** (1) When performing electronic communications through the networks as per Art. 2, the norms and requirements for people protection from the harmful affect of the electromagnetic fields should be observed in accordance with Ordinance № 9 of 1991 for the ultimate allowed levels of electromagnetic fields in populated areas and determining of hygiene protective areas round emitting objects (promulgated in State Gazette issue 35 of 1991 r.; as amended, issue 38 of 1991; amended issue 8 of 2002).

(2) The undertakings should take such measures as to decrease to the minimum the risk of harmful electromagnetic fields for the population by locating the electronic communication equipment in such places where the population will be least exposed to the harmful emissions.

(3) In case the electromagnetic emissions resulting from operation of the electronic communication equipment exceed the limit stated in relevant standards, undertakings shall be obliged to render them in conformity as soon as possible or if this is not possible to stop using the relevant equipment.

(4) If a problem arises related to electromagnetic compatibility, the undertaking shall make on its own account the corresponding changes in the location and parameters of the stations prescribed by the Communications Regulation Commission.

(5) In the event of exceeding the electromagnetic emissions limit values due to the performance of two or more devices located in close vicinity to each other, and when the operation of only one of them does not cause exceeding the limit values, the undertaking which has installed the device later should either provide for such conditions at which there is no exceeding of the electromagnetic emissions limit values or stop the operation of the device.

## **ADDITIONAL REGULATION**

**§ 1.** In the sense of Appendix № 2:

1. "Electronic communication network of fixed-satellite radio service" is part of the ground component of the satellite electronic communication system of fixed-satellite radio service consisting of Earth stations of one undertaking.

2. "Electronic communication network of mobile-satellite radio service" is part of the ground component of the satellite electronic communication system of the mobile-satellite radio service consisting of Earth stations and/or satellite terminals of one undertaking.

3. "Earth station" is a station of a satellite radio service located on the ground surface and intended to perform electronic communications with one or more satellite stations of one satellite system.

4. "Satellite terminal" is a small Earth station of fixed-satellite radio service or terminal electronic communication device of a mobile-satellite radio service.

5. "Feeder link" – radio connection in the bands of fixed-satellite radio service in directions "Earth-space" or "Space-Earth" that transmits signals for the satellite system of another radio service, most often mobile satellite service or broadcasting satellite service.

6. "Guarded boundaries" are the terrains surrounded by the perimeter fence of an airport.

7. "Notification of satellite systems from the fixed-satellite radio service" is a process of international coordination and registration of satellite system, which is performed under the rules of precedence of Art. 11 and Appendix 30B of the Radio Regulations and which is deemed completed when the relevant satellite system is entered in the Master International Frequency Register - MIFR. By this the satellite system is entitled to use a particularly determined frequency resource for the particular position on the geostationary orbit at strictly determined technical parameters of the satellite and ground component of the satellite system.

8. "Satellite capacity provider" is the owner of a notified satellite system or a person authorized by him, who can lend against payment part of the satellite system capacity to Earth stations operators.

## **CONCLUDING REGULATIONS**

**§ 2.** The Technical requirements are adopted on the grounds of Art. 32, para 2 of the Electronic Communications Act.

**§ 3.** The Technical requirements enter in force on the day of promulgation in the State Gazette.

The Technical requirements for the performance of electronic communication networks of fixed-satellite and mobile-satellite radio services and related equipment have been adopted by Decision № 1475 dated 20<sup>th</sup> December 2007 of the Communications Regulation Commission.

**Appendix No. 1**  
To Art. 3

Technical characteristics and parameters of the electronic communication networks of fixed-satellite service (FSS) and mobile-satellite service (MSS) and the related equipment.

Radio Frequency Band	Radio Service, direction	Example of satellite systems, Earth stations, terminals	Limiting technical parameters of Earth stations	Additional regulatory parameters	Applicable documents of European organizations	Applicable standards
137 – 138 MHz	MSS, Space-Earth	Mobile Earth stations E-SAT, ORBCOMM, LEO ONE		For non-geostationary systems only	ERC/DEC/(99)05 ERC/DEC/(99)06	BSS EN 301 721
148,0 – 149,9 MHz	MSS, Earth-Space	Mobile Earth stations E-SAT, ORBCOMM, LEO ONE		For non-geostationary systems only	ERC/DEC/(99)05 ERC/DEC/(99)06	BSS EN 301 721
399,90 – 400,05 MHz	MSS, Earth-Space	SAFIR mobile Earth station		For non-geostationary systems only	ERC/DEC/(99)05 ERC/DEC/(99)06	BSS EN 301 721
400,15 – 401 MHz	MSS, Space-Earth	mobile Earth station LEO ONE		For non-geostationary systems only	ERC/DEC/(99)05 ERC/DEC/(99)06	BSS EN 301 721
400,60 – 400,90 MHz	MSS, Space-Earth	SAFIR mobile Earth station			ERC/DEC/(99)05 ERC/DEC/(99)06	BSS EN 301 721

1479.5 – 1492 MHz	Satellite broadcasting			Limited to audio broadcasting only	ECC/DEC/(03)02	
1518 – 1525 MHz	MSS, Space-Earth			With no right to protection towards fixed radio service	ECC/DEC/(04)09	
1525,0 – 1544,0 MHz 1545,0 – 1559,0 MHz	MSS, Space-Earth MSS, Space-Earth	INMARSAT-A INMARSAT-B INMARSAT-M INMARSAT-M4 INMARSAT-phone INMARSAT-BGAN EMS-MSSAT INMARSAT-C INMARSAT-D EMS-PRODAT SPACECHECK ER S-SMS THURAYA		With no right to use feeder links except for extraordinary cases In the band 1530-1544 MHz the messages of the Global Maritime Distress and safety System have priority (GMDSS)	ECC/DEC/(02)08 ECC/DEC/(02)11 ERC/DEC/(01)22 ERC/DEC/(01)23 ERC/DEC/(01)24 ERC/DEC/(01)25 ERC/DEC/(98)03	BSS EN 301 444 BSS EN 301 426 BSS EN 301 681 BSS EN 301 473
1 610 - 1 613.8 MHz	MSS, Earth-Space					
1 613.8 - 1 626.5 MHz	MSS, Earth-Space MSS, Space-Earth	IRIDIUM GLOBALSTAR			ERC/DEC/(97)03 ERC/DEC/(97)05	BSS EN 301 441 BSS EN 301 473
1626,5 – 1645,5 MHz 1646,5 – 1660,5 MHz	MSS, Earth-Space MSS, Earth-Space	INMARSAT-A INMARSAT-B INMARSAT-M INMARSAT-M4 INMARSAT-		With no right to use feeder links except for extraordinary cases. In the band 1626,5–	ECC/DEC/(02)08 ECC/DEC/(02)11 ERC/DEC/(01)22 ERC/DEC/(01)23 ERC/DEC/(01)24	BSS EN 301 444 BSS EN 301 426 BSS EN 301 681 BSS EN 301 473

		phone INMARSAT- BGAN EMS-MSSAT INMARSAT-C INMARSAT-D EMS-PRODAT SPACECHECK ER S-SMS THURAYA		1645,5 MHz the messages of the Global Maritime Distress and safety System have priority (GMDSS)	ERC/DEC/(01)25 ERC/DEC/(98)03	
1670 – 1675 MHz	MSS, Earth-Space				ECC/DEC/(04)09	
1 980 - 2 010 MHz	MSS, Earth-Space	ICO			ECC/DEC/(06)09 ERC/DEC/(97)03 ERC/DEC/(97)05	BSS EN 301 442 BSS EN 301 473
2 170 - 2 200 MHz	MSS, Space-Earth	ICO			ECC/DEC/(06)09 ERC/DEC/ 97)03 ERC/DEC/(97)05	BSS EN 301 442 BSS EN 301 473
2 483.5 - 2 500 MHz	MSS, Space-Earth	GLOBALSTAR			ERC/DEC/(97)03 ERC/DEC (97)05	BSS EN 301 441 BSS EN 301 473
3 400 – 3 700 MHz	FSS, Space-Earth					BSS EN 301 443
3 700 – 4 200 MHz		Earth station onboard vessel			ECC/DEC/(05)09	BSS EN 301 443
4 500 – 4 800 MHz	FSS, Space-Earth			Appendix 30B plan of the Radio regulations		

5 725 – 5 850 MHz	FSS, Space-Earth					
5 850 – 5 925 MHz	FSS, Earth-Space					BSS EN 301 443
5 925 – 6 425 MHz	FSS, Earth-Space	Earth station onboard vessel			ECC/DEC/(05)09	BSS EN 301 443
6 425 – 6 925MHz	FSS, Earth-Space			Appendix 30B plan of the Radio regulations		BSS EN 301 443
6 925 – 7 075 MHz	FSS, Earth-Space			Appendix 30B plan of the Radio regulations; Feeder links for MSS		BSS EN 301 443
7 250 – 7 375 MHz	MSS, Space-Earth					
7 900 – 8025 MHz	MSS, Earth-Space					
10,70 – 11,70 GHz	FSS, Space-Earth Earth-Space MSS, Earth-Space	OMNITRACS ARCANET Suitcase SIT terminals LEST, HEST, SNG, VSAT Earth station onboard vessel Earth station onboard aircraft	HEST: Transmitter power: 2 W, 50 dBW e.i.r.p. Use of HEST terminal at distance less than 500 m from the guarded boundaries of airport is not allowed.	Appendix 30B plan of the Radio regulations in the bands 10,7-10,95 GHz and 11,2-11,45 GHz Use of FSS (Earth-Space) feeder links for Satellite broadcasting	ERC/DEC/(00)08 ECC/DEC/(05)10 ECC/DEC/(05)11 ERC/DEC/(00)03 ECC/DEC/(06)02 ECC/DEC/(06)03 ERC/DEC/(98)24 ERC/DEC/ 98)15 ERC/DEC/(98)17	BSS EN 301 427 BSS EN 301 428 BSS EN 301 430 BSS EN 301 360 BSS EN 301 459 BSS EN 302 186 BSS EN 302 340
11,70 – 12,5 GHz	Satellite	SIT terminals	HEST: Transmitter	Appendix 30B plan	ERC/DEC/(00)08	BSS EN 301 428

	broadcasting FSS, Space-Earth	LEST, HEST	power: 2 W, 50 dBW e.i.r.p. Use of HEST terminal at distance less than 500 m from the guarded boundaries of airport is not allowed.	of the Radio regulations FSS, Space-Earth without interference to the satellite broadcasting; incl. non geostationary systems are allowed.	ERC/DEC/(00)03 ECC/DEC/(06)02 ECC/DEC/(06)03	BSS EN 301 459
12,50 – 12,75 GHz	FSS, Space-Earth, Earth-Space MSS, Earth-Space	SIT terminals SNG VSAT OMNITRACS ARCANET Suitcase LEST HEST Earth station onboard vessel Earth station onboard aircraft	HEST: Transmitter power: 2 W, 50 dBW e.i.r.p. Use of HEST terminal at distance less than 500 m from the guarded boundaries of airport is not allowed.	Non-geostationary systems are without protection against the geostationary ones.	ERC/DEC/(00)03 ERC/DEC/(00)05 ECC/DEC/(05)10 ECC/DEC/(05)11 ECC/DEC/(06)02 ECC/DEC/(06)03 ERC/DEC/(98)24 ERC/DEC/(98)15 ERC/DEC/(98)17	BSS EN 301 430 BSS EN 301 459 BSS EN 301 360 BSS EN 301 427 BSS EN 301 428 BSS EN 302 186 BSS EN 302 340
12,75 – 13,25 GHz	FSS, Earth-Space	SNG		Appendix 30B plan of the Radio regulations		BSS EN 301 430
13,75 – 14 GHz	FSS, Earth-Space	SNG		Limitation of the antenna minimum diameter. Non geostationary systems have no		BSS EN 301 430

				right for protection against the geostationary ones		
14,00 – 14,25 GHz	FSS, Earth-Space MSS, Earth-Space	Earth station onboard aircraft . Earth station onboard vessel SNG, VSAT, LEST, HEST OMNITRACS ARCANET Suitcase	HEST: Transmitter power: 2 W, 50 dBW e.i.r.p. Use of HEST terminal at distance less than 500 m from the guarded boundaries of airport is not allowed.		ECC/DEC/(05)10 ECC/DEC/(05)11 ERC/DEC/(00)05 ECC/DEC/(06)02 ECC/DEC/(06)03 ERC/DEC/(98)24 ERC/DEC/(98)15 ERC/DEC/(98)17	BSS EN 302 186 BSS EN 302 340 BSS EN 301 428 BSS EN 301 427 BSS EN 301 430
14,25– 14,5 GHz	FSS, Earth-Space; MSS, Earth-Space	Earth station onboard aircraft . Earth station onboard vessel SNG, VSAT			ECC/DEC/(05)11 ECC/DEC/(05)10 ECC/DEC/(03)04	BSS EN 302 186 BSS EN 302 340 BSS EN 301 428 BSS EN 301 427 BSS EN 301 430
17,3 – 17,7 GHz	FSS, Earth-Space FSS, Space-Earth	FSS with high density		Appendix 30B plan of the Radio regulations FSS (Earth-Space) for geostationary systems is limited to feeder links for Satellite broadcasting; non-geostationary systems cannot	ECC/DEC/(05)08	

				cause interference to them. Earth Stations in FSS (Space-Earth) have no protection from feeder links		
17,7 – 18,1 GHz	FSS, Space-Earth FSS, Earth-Space			FSS (Earth-Space) for geostationary systems is limited to feeder links for Satellite broadcasting; non-geostationary systems cannot cause interference to them. Coordinated Earth stations. Non-geostationary systems have no rights for protection against the geostationary ones	ERC/DEC/(00)07	BSS EN 301 360
18,1 – 18,4 GHz	FSS, Space-Earth			Coordinated Earth stations. Non-geostationary systems have no rights for protection against the geostationary ones.	ERC/DEC/(00)07	BSS EN 301 360
18,4 – 19,3 GHz	FSS, Space-Earth			Coordinated Earth	ERC/DEC/(00)07	BSS EN 301 360

				stations. Non geostationary systems 18,4 – 18,6 GHz have no rights for protection against the geostationary ones		
19,3-19,7 GHz	FSS, Space-Earth FSS, Earth-Space			FSS (Earth-Space) is limited to feeder links for MSS Coordinated Earth stations.	ERC/DEC/(00)07	BSS EN 301 360
19,70 – 20,20 GHz	FSS, Space-Earth MSS, Space-Earth	SUT terminal LEST, HEST FSS with high density	HEST: Transmitter power: 2 W, 50 dBW e.i.r.p. Use of HEST terminal at distance less than 500 m from the guarded boundaries of airport is not allowed.	Non-geostationary systems have no rights for protection against the geostationary ones	ERC/DEC/(00)04 ECC/DEC/(05)08 ECC/DEC/(06)02 ECC/DEC/(06)03	BSS EN 301 428 BSS EN 301 459
21,4 – 22 GHz	Satellite broadcasting	HDTV systems				
27.51-27.8185 GHz, 28.4545-28.8365 GHz 28.8365-28.9385	FSS, Earth-Space	Uncoordinated Earth stations		Feeder links for Satellite broadcasting; The range is shared with	ECC/DEC/(05)01	BSS EN 301 360

GHz 29.4625-29.5				fixed radio service according to ERC DEC (05)01. Non-geostationary systems have no rights for protection against the geostationary ones		
29,50 – 30,00 GHz	FSS, Earth-Space	FSS applications with high density SIT terminal SUT terminal LEST, HEST	HEST: Transmitter power: 2 W, 50 dBW e.i.r.p. Use of HEST terminal at distance less than 500 m from the guarded boundaries of airport is not allowed.	Feeder links for Satellite broadcasting	ECC/DEC/(06)03 ECC/DEC/(06)02 ECC/DEC/(05)08 ERC/DEC (00)04 ERC/DEC/(00)03	BSS EN 301 428 BSS EN 301 459
37,50 – 39,50 GHz	FSS, Space-Earth MSS, Space-Earth	Earth stations		Uncoordinated Earth stations	ERC/DEC/(00)02	
39,50 – 40,50 GHz	FSS, Space-Earth MSS, Space-Earth	Earth stations		Coordinated Earth stations	ERC/DEC/(00)02	
40,50 – 42,50 GHz	Satellite broadcasting FSS, Earth-Space			Uncoordinated Earth stations	ECC DEC (02)04	
42,50 – 43,50 GHz	FSS, Earth-Space					

47,50 – 47,9 GHz	FSS, Space-Earth			ECC DEC (05)08		
48,2 – 48,54 GHz	FSS, Space-Earth			ECC DEC (05)08		
49,44 – 50,2 GHz	FSS, Space-Earth			ECC DEC (05)08		

## **Appendix No. 2**

### **To Art. 4**

#### **Rules for provision of electronic communications through electronic communication networks from fixed-satellite and mobile-satellite radio service**

##### **1. General provisions.**

1.1. Electronic communications through the electronic communication networks of the fixed satellite and mobile-satellite radio service are performed in strict compliance with the Electronic Communications Act and the relevant regulations for its implementation.

1.2. The electronic communication networks of fixed-satellite radio service use radio frequency spectrum, which is necessary to be individually assigned.

1.3. Some classes of satellite terminals of the fixed-satellite service fulfilling particular conditions can work without causing interference to the operation of other electronic communication networks sharing the same frequency resource. In such cases they can use the radio frequency spectrum, which is not necessarily individually assigned and operate in compliance with the General Provisions for provision of public electronic communications, pursuant to Art. 73, para 1 of the Electronic Communications Act, when being used for rendering services, while observing the rules of provision of electronic communications, and pursuant to under Art. 65, para 2 of the Electronic Communications Act, when being used for own needs,

1.4. The satellite terminals of the mobile-satellite radio service use spectrum, which is not necessarily individually assigned. They work under the control of the satellite operator observing the General Requirements for provision of public electronic communications pursuant to Art. 73, para 1 of the Electronic Communications Act, when being used for provision of services in compliance with the Rules for provision of electronic communications, and pursuant to Art. 65, para 2 of the Electronic Communications Act, when being used for own needs.

**2. General rules for provision of individually assigned scarce resource – radio frequency spectrum.**

2.1. The Commission grants without competition or tender individually assigned scarce resource – radio frequency spectrum under the conditions of Chapter Five, Sections III and IV of the Electronic Communications Act by means of issuing of an authorization for use of individually assigned scarce resource – radio frequency spectrum by electronic communication networks of fixed-satellite radio service, called herein after “authorization” after submitting of application.

2.2. The Commission issues temporary rights for use of individually assigned scarce resource – radio frequency spectrum, with term of validity not more than 6 months under the conditions of Chapter Five, Section VII of the Electronic Communications Act.

2.3. The Commission amends, supplements, cancels, suspends or transfers rights of use as per the order of Chapter Five, Section IX of the Electronic Communications Act.

2.3.1. The term of validity of a right for use of individually assigned scarce resource – radio frequency spectrum can be extended or shortened by motivated request of the undertaking, which has been issued a right of use after submitting of application.

2.3.2. The issued right of use of individually assigned scarce resource – radio frequency spectrum, may be amended by justified request of the undertaking after investigation of the reasonableness of the request of the undertaking, which has been issued a right of use after submitting of application.

2.3.3. The validity of the right of use of individually assigned scarce resource – radio frequency spectrum may be terminated after motivated written request of the undertaking which has been issued a right of use after submitting of application.

2.3.4. The validity of issued right of use of individually assigned scarce resource – radio frequency spectrum can be terminated after revoking of the relevant right of use.

2.3.5. The validity of issued right of use of individually assigned scarce resource – radio frequency spectrum may be suspended by motivated request of the undertaking, which has been issued a right of use after submitting of application. The suspension cannot be for a term more than three months.

2.3.6. In case of suspension of the issued right of use of individually assigned scarce resource – radio frequency spectrum under para 2.3.5 the undertaking owes instalment of the annual fees for using the radio frequency spectrum for the time, in which the right of use has been suspended.

2.4. Granting of individually assigned scarce resource – radio frequency spectrum for the operation of the electronic communication networks from fixed-satellite or mobile-satellite radio service is made after performing of survey on the electromagnetic compatibility, national coordination with all concerned state authorities, offices and services aiming to ensure the safety of the aviation and shipping and protection of the national security and defence.

2.5. When granting individually assigned scarce resource – radio frequency spectrum for the operation of the electronic communication networks from fixed-satellite or mobile-satellite radio service the existing restrictions for shared use with other radio services provided by the National Plan for Allocation of the Radio Frequency Spectrum should be observed.

2.6. When granting individually assigned radio frequency spectrum, which needs an international coordination, the order of Art.86, para2 through 6 of the Electronic Communications Act shall apply.

2.7. The international notification of frequency assignments used by the Earth stations in the electronic networks from fixed-satellite radio service is made under the rules of procedure of the Radio Regulations.

2.7.1. International notification is made in the following cases:

2.7.1.1. Possibility of creating or receiving transborder interference;

2.7.1.2. There is a requirement for obtaining international recognition for using the radio frequency bands.

2.7.2. If the right of use for frequencies or other parameters needs changes as a result of refusal of international registration the consequences are on the account of the undertaking.

2.8. The construction of electronic communication networks of fixed-satellite and/or mobile-satellite radio service, equipment and related infrastructure are made under the order of the Territory Structure Act and Chapter 17 of the Electronic Communications Act.

2.9. Commissioning of the equipment under para.207 is made as per the Electronic Communications Act.

### **3. Charges and fees.**

3.1. Under the order of Chapter 8 of the Electronic Communications Act and in accordance with the Tariff of fees collected by the Communications Regulation Commission, the following administrative charges and fees for use of individually assigned scarce resource – radio frequency spectrum are owed when providing electronic communications through electronic communications networks from fixed-satellite and mobile-satellite radio services.

3.2. Administrative charges as per para 3.1:

3.2.1. Annual fee for control (in regard of persons providing public electronic communications);

3.2.2. Single fee for issue of right of use of individually assigned scarce resource – radio frequency spectrum;

3.2.3. Single fee for amendment of permit;

3.2.4. Single fee for administrative services;

3.3. The fees for use of individually assigned scarce resource – radio frequency spectrum are:

3.3.1. Annual fee for use of individually assigned scarce resource – radio frequency spectrum;

3.3.2. Fee for temporary use of individually assigned scarce resource – radio frequency spectrum.

**4.** Provision of electronic communications in time of crisis, and when declaring a regime “military situation”, “situation of war” or other extraordinary situation.

Undertakings performing electronic communications through electronic communications networks from fixed-satellite and/or mobile-satellite radio service shall ensure using of the granted radio frequency spectrum in case of crisis in the sense of the Crisis Management Act and in the event of declaring a regime “military situation”, “situation of war” or “extraordinary situation” in the sense of the Law on Defence and Armed Forces of Republic of Bulgaria and shall comply with the requirements and restrictions connected with the national security and defence in accordance with Chapter 18 of the Electronic Communications Act.

**5.** Control.

The control over the provision of electronic communications through electronic communications networks from fixed-satellite and/or mobile-satellite radio service shall be performed by authorized officers of the Commission under the order of Chapter 20 of the Electronic Communications Act.

**Appendix No. 3**

To Art. 7

List of Standards related to electronic communications networks from fixed-satellite and mobile-satellite radio service

Standard

- |                |  |
|----------------|--|
| BSS EN 301 360 | Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) for satellite interactive terminal devices (SIT) and satellite users terminal devices (SUT), emitting towards satellites on geostationary orbit in frequency band from 27,5 to 29,5 GHz, covering the essential requirements in Art.3.2 of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive |
| BSS EN 301 426 | Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) for transfer of low speed data from Land Mobile Satellite Earth Stations (LMES) for connection through satellite, operating in frequency bands 1,5/1,6 GHz, covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive                             |
| BSS EN 301 427 | Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) regarding mobile earth stations (MESs) for low speed data, excluding mobile satellite earth stations for the aviation, operating in frequency bands 11/12/14 GHz, covering the requirements of Art.3.2 of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive                                  |

- BSS EN 301 428 Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) for Very Small Aperture Terminal (VSAT). Transmission, transceiver or receiver earth stations for connection to satellite operating in the frequency bands 11/12/14 GHz, covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive
- BSS EN 301 430 Satellite Earth Stations and Systems (SES); Harmonized European standard for Satellite News Gathering Terminal Earth Station (SNG TES), operating in the frequency bands 11/12/14 GHz, covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive
- BSS EN 301 441 Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) Satellite News Gathering Terminal Earth Station (SNG TES), operating in the frequency bands 11-12/ 13-14 GHz, covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive
- BSS EN 301 442 Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) for Mobile Earth Stations (MESs), including portable earth stations for Satellite Personal Communications Network (S-PCN) in the band 2 GHz with Mobile Satellite Services (MSS), covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive
- BSS EN 301 443 Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) for Very Small Aperture Terminal (VSAT). Transmission, transceiver or receiver earth stations for connection to satellite operating in the frequency bands 4 GHz and 6 GHz, covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive
- BSS EN 301 444 Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) for Land Mobile Earth Stations (LMES), operating in frequency bands 1, 5 GHz and 1,6 GHz , providing transmission of voice and/or data, covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive
- BSS EN 301 459 Satellite Earth Stations and Systems (SES). Harmonized European standard for Satellite Interactive Terminals (SIT) and Satellite User Terminals (SUT), emitting to satellites on geostationary orbit in frequency band from 29,5 to 30,0 GHz, covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive
- BSS EN 301 473 Satellite Earth Stations and Systems (SES). Aeronautical Earth Stations (AES), operating within the Aeronautical Mobile Satellite Service (AMSS)/ Mobile Satellite Service (MSS) and/or Aeronautics Mobile Satellite (on route) Service (AMS(R)S)/ Mobile Satellite Service (MSS)

- BSS EN 301 681 Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) for Mobile Earth Stations (MESs) of mobile systems for connection through geostationary satellites, including portable Earth stations for Satellite Personal Communication Networks (S-PCN) in the bands 1,5 / 1,6 GHz of the Mobile Satellite Service (MSS), covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive
- BSS EN 301 721 Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) for Mobile Satellite Earth Stations (MES), delivering messages with low speed of data using satellite on Low Earth Orbit (LEO), operating bellow 1 GHz, covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive
- BSS EN 302 186 Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) for satellite mobile aircraft Earth stations (AESs), operating in frequency bands 11/12/14 GHz, covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive
- BSS EN 302 340 Satellite Earth Stations and Systems (SES). Harmonized European standard (EN) for satellite earth stations on board vessels (ESVs), operating in frequency bands 11/12/14 GHz allocated to the Fixed Satellite Services (FSS), covering the essential requirements in Art.3(2) of the Radio and Telecommunications Terminal Equipment (R&TTE) Directive