Pursuant to Article 8, paragraph 1 item 1), Article 23, paragraph 1 and Article 85, paragraph 3 of the Law on Electronic Communications (*Official Gazette of the Republic of Serbia*, no. 44/10), and pursuant to Article 16, item 4 of the Statute of the Republic Agency for Electronic Communications (*Official Gazette of the Republic of Serbia*, no. 59/10), the

Managing Board of the Republic Agency for electronic communications, in its session held on 7 July 2011, adopted the following

#### **RULES**

## ON ON THE MANNER OF RADIO STATIONS USAGE ON BOARD OF NATIONAL AND FOREIGN AIRCRAFTS, LOCOMOTIVES, SHIPS AND OTHER VESSELS

#### **General provisions**

#### **Article 1**

The Republic Agency for Electronic Communications (hereinafter: the Agency) shall prescribe by these Rules the manner of radio station usage on board of national and foreign aircrafts, locomotives, ships and other vessels in accordance with the appropriate international agreements and recommendations.

#### Article 2

The right to use radio frequencies for radio stations on aircrafts, ships and other vessels shall be granted on the basis of an individual licence for the use of radio frequencies (hereinafter: an individual licence) which shall be issued upon the request of owners or authorized users of aircrafts, ships or other vessels (hereinafter: the Request).

The individual licence for radio stations on locomotives shall be issued exclusively upon the request of the public enterprise "Serbian Railways" (hereinafter: "Serbian Railways").

The request and the submitted documents shall be in line with the general by-law of the Agency which prescribes the form of the request for the issuance of an individual license including the guidelines with the compulsory elements of the technical solution depending on the type of radiocommunications service and activity it pertains to.

Authorities of the Republic of Serbia in charge of defense and security affairs, as well as emergency services, shall use radio stations and radio frequencies for radio stations on board of aircrafts, ships and other vessels without the prior individual licence issuance procedure for the use of radio frequencies on the aforementioned facilities.

#### Article 3

The licence for radio stations on aircrafts, locomotives, ships and other vessels shall be issued in the form of DRS, DRSV and DRSB forms which shall be printed herewith and shall be an integral part hereof as follows:

- 1) DRS form licence for the use of radio frequencies for radio stations;
- 2) DRSV form licence for radio stations on board of aircrafts;
- 3) DRSB form licence for radio stations on board of ships and other vessels.

The individual licence issuance fee shall be paid in accordance with the general by-law of the Agency which governs the amount of the fee for the provision of services which fall within the competencies of the Agency.

#### **Article 4**

The use of radio frequencies shall commence within a deadline stipulated in the individual radio station licence.

The technical inspection of the radio station shall be conducted within the deadline stipulated in the individual licence.

Radio frequency usage fee shall be paid in accordance with the general by-law of the Agency which prescribes the amount of the radio frequency usage fee.

#### I. Radio stations on board of national and foreign aircrafts

#### Article 5

The use of radio frequencies for radio stations on board of aircrafts shall be governed by the Frequency Bands Allocation Plan (*Official Gazette of the Republic of Serbia*, nos. 112/04 and 86/08, hereinafter: Allocation Plan), Annex 10 of the Convention on International Civil Aviation (hereinafter: Annex 10), as well as by the provisions of Radio Regulations, Geneva 2008, hereinafter: Radio Regulations).

The individual licence for radio stations on board of national and foreign aircrafts shall be issued provided that the aircraft in question is registered with the Aircraft Register of the Civil Aviation Directorate of the Republic of Serbia (hereinafter: the Directorate).

The request for the issuance of the individual radio station licences shall include the list of all radio stations on board as well as the appropriate technical documentation.

#### Article 6

The use of radio frequencies for safety and distress communications shall be governed by the Allocation plan, Radio Regulations (Frequency Allocation Table – Chapter II, Chapter VII, Appendix 15) as well as by Chapter V of Volume 2, Annex 10. Transmitting frequencies 121. 5 MHz, 243 MHz and 406 MHz of life-saving appliances, if built in the aircraft, shall be explicitly stated in the individual licence, as well as all other frequencies with the same usage.

In cases where radio stations installed on board of aircrafts use the following frequency bands:

- 3 025 kHz 18 030 kHz frequency band sub-bands of this band in a manner prescribed by Appendix 26 of Radio Regulations Provisions and Associated Frequency Allotment Plan for the aeronautical mobile (OR) service in the bands allocated exclusively to that service between 3 025 kHz and 18 030 kHz;
- 2 850 kHz 22 000 kHz frequency band sub-bands of this band in a manner prescribed by Appendix 27 of Radio Regulations Frequency Allotment Plan for the aeronautical mobile (R) service and related information;
  - 190 1750 kHz band for radio compasses;

- 108-111.975 MHz frequency band for the Instrument Landing System (ILS), for indicating deviation of aircrafts from their optimum path of descent along the axis of the runway (localizer), very high frequency omni-directional radio beacons (VOR), global navigation satellite systems (GNSS), etc.;
- 111.975 117.975 MHz frequency band for very high frequency omni-directional radio beacons (VOR), global navigation satellite systems (GNSS), etc.;
- 117.975 137 MHz frequency band for the international and national aeronautical mobile (R) service (frequency allotment plan is given in Chapter 4, Book V Annex 10, including the recommendation for the effective radiated power of the communications VHF transmitter);
- 138 144 MHz frequency band frequencies 142.750 MHz and 143.750 MHz in particular for agricultural aviation radiocommunications;
- 328.6 335.4 MHz frequency band for the Instrument Landing System (ILS) for indicating the vertical deviation of the aircraft from its optimum path of descent (glide path);
- 960 -1215 MHz frequency band for distance measuring equipment (DME) on aircraft for interrogator transmitting in the 1025 1150 MHz sub-band and for ATC transponder transmitting on 1090 MHz as an interrogation response;
- 1300 1350 MHz, 2700 2900 MHz, 9000 9200 MHz and 15.40 15.70 GHz frequency band for transmitters transponders in aeronautical radionavigation service;
  - 4200 4400 MHz frequency band for radio altimeters;
  - 5000 5250 MHz frequency band Microwave Landing Systems(MLS);
  - 9300 9500 MHz frequency band airborne weather radars;
- 13.25 13.4 GHz frequency band for ancillary navigation devices which utilize the Doppler effect;

the type of radio stations shall be stated in the Request and technical characteristics shall be submitted as an appendix to the Request.

#### Article 7

ECC/DEC/(06)07 Decision of 3 August 2009 stipulates the GSM 1800 frequency band as a band for the provision of mobile telephony services on board of aircrafts and refers to heights exceeding 3000 m above ground for the equipment which is in compliance with the requirements included in the Annex to the Decision. Mobile telephony system on board of aircrafts must not cause harmful interference to terrestrial mobile telephony systems.

Upon request of the users of aircrafts, the authorizations for the provision of mobile telephony services on board of aircrafts shall be issued by the Agency.

#### II. Radio stations on board of locomotives

#### **Article 8**

The use of radio frequencies for radio stations on board of locomotives, which operate within the analogue radio dispatch system of "Serbian Railways", shall be in compliance with the Allocation Plan and UIC (L'Union Internationale des Chemins de fer (International Union of Railways)) Recommendation 751-3 as well as CEPT (European Conference of Postal and Telecommunications Administrations) Recommendation T/R 22-01.

Table of frequencies used by the "Serbian Railways" radio dispatch system is given in Table 1.

Locomotive transmitting frequency TX (MHz)	4 – frequency groups	Locomotive receiving frequency RX (MHz)	Simplex channels		
457.450		467.450	11		
457.475		467.475	12		
457.500	60	467.500	13		
457.525	$\overline{}$	467.525	14		
457.550	61	467.550	15		
457.575		467.575	16		
457.600		467.600	17		
457.625		467.625	18		
457.650		467.650	19		
457.675		467.675	20		
457.700	62	467.700	21		
457.725		467.725	22		
457.750		467.750	23		
457.775		467.775	24		
457.800		467.800	25		
457.825	63	467.825	26		
457.850		467.850	27		
457.875		467.875	28		
457.900		467.900	29		
457.925	64	467.925	30		
457.950		467.950	31		
457.975		467.975	32		
458.000	65	468.000	33		
458.025		468.025	34		
458.050		468.050	35		
458.075		468.075	36		
458.100		468.100	37		
458.125		468.125	38		
458.150		468.150	39		
458.175		468.175	40		
458.200	66	468.200	41		
458.225		468.225	42		
458.250	67	468.250	43		
458.275		468.275	44		
458.300	<u> </u>	468.300	45		

**Table 1.** - UIC 4-frequency groups for the "Serbian Railways" radio dispatch system

Within the aforementioned frequency band, eight 4-frequency groups are formed, i.e. one transmitting and three receiving frequencies for duplex mode of operation.

One 4-frequency group shall be used within a certain railway segment where radio dispatch system is organized. Within one railway segment, radio station on board of locomotive shall transmit on one frequency on which all fixed radio station receivers within that segment shall be set.

Fixed radio station transmitting frequencies shall be planned in accordance with the three remaining frequencies from the group, depending on the configuration of the terrain, i.e. radio wave propagation.

Radio stations on board of locomotives shall have the TX/RX - 457.450-458.300/467.450-468.300MHz frequency band.

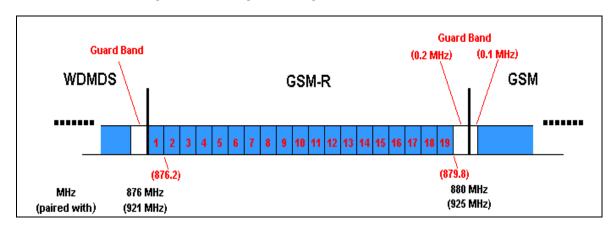
Radio station operator shall manually set the 4-frequency group which is planned for a certain railway segment. Within the set 4-frequency group, the radio station shall scan the receiving frequencies of the set group and establish a connection on a frequency with the highest receiving signal level.

Analogue radio systems enable voice communications and limited signalling exchange. This system shall not perform the combination and integration of voice and data transmission.

#### Article 9

The use of the GSM-R digital radio dispatch system shall be in compliance with the Allocation Plan and the ECC/DEC/ (02)05 Decision which specifies the 876 - 880/921 - 925 MHz frequency band for the railway system.

For the UIC systems on railways, the 876-880 MHz band (mobile station transmission) is paired with the 921-925 MHz band (base station transmission) with channel width of 200 kHz and channel spacing of 45 MHz for duplex mode of operation. The graphic illustration of the GSM-R channels with guard bands is given in Figure 1.



**Figure 1:** Graphic illustration of the allocated GSM-R channels with guard bands Frequency plan for GSM-R networks is given in Tables 2 and 3.

Mobile station assigned frequency	Base station assigned frequency
-----------------------------------	---------------------------------

TX (MHz)	RX (MHz)
876.2000	921.2000
876.4000	921.4000
876.6000	921.6000
876.8000	921.8000
877.0000	922.0000
877.2000	922.2000
877.4000	922.4000
877.6000	922.6000
877.8000	922.8000
878.0000	923.0000
878.2000	923.2000
878.4000	923.4000
878.6000	923.6000
878.8000	923.8000
879.0000	924.0000
879.2000	924.2000
879.4000	924.4000
879.6000	924.6000
879.8000	924.8000
880.0000 Note 1)	925.0000 Note 1)

Note 1) 880.0000 MHz paired with 925.0000 MHz frequency band represents the guard channel.

**Table 2.** – Frequency plan for duplex mode of operation within the GSM-R network

The 876.000 - 876.100 MHz frequency band, with 12.5 kHz channel spacing, is intended for direct mode operation (DMO) within the simplex mode of operation.

Mobile station assigned frequency TX/Rx (MHz)
876.0125
876.0250
876.0375
876.0500
876.0625

**Table 3.** - Frequency plan for simplex (DMO) within a GSM-R network

Equipment used in the GSM-R network should be in compliance with the relevant European Telecommunications Standards (EN 301 502 and EN 301 419-7 for GSM-R duplex mode of operation and EN 300 086 for simplex (DMO).

### III. Radio stations on board of ships and other vessels

#### Article 10

On inland waterways of the Republic of Serbia, the use of radio frequencies shall be allowed in accordance with Table 4.

Transmitting frequencies (MHz)		Communication type	Additional terms of use			
Ship	Land	<b>.</b> 1				
156.500	156.500	Ship-to-ship communication	This channel is the primary channel for ship to ship communication			
156.550	156.550	Ship-to-port communication				
156.575	156.575	Ship-to-port communication				
156.600	156.600	Ship-to-port communication				
156.625	156.625	Ship-to-ship communication	This channel is used for communications with a social character			
156.650	156.650	Ship-to-port communication				
156.675	156.675	Ship-to-port communication				
156.700	156.700	Ship-to-port communication	This channel is used for special events on a temporary basis and requires authorization obtained from the relevant authorities			
156.750	156.750	Ship-to-ship communication	This channel is used for onboard communication (the use of this channel is not allowed on board of small ships (below 20 m).			
156.775	156.775	Ship-to-port communication	This channel may be used for mobile satellite service (Earth-to-space services) for receiving AIS transmissions from ships which use only messages type 27			
156.800	156.800	Emergency communications	This channel is used in case of emergency, rescue operations and distress calls			
156.825	156.825	Nautical information	This channel is used for piloting, mooring, tugging and for other nautical purposes. The output power for the VHF radiotelephone equipment shall be reduced automatically to a value between 0.5 and 1 W while the equipment is in operation on this frequency. This channel may be used for mobile satellite service (Earth-to-space services) for the reception of AIS transmissions from ships using only messages type 27			
156.850	156.850	Ship-to-ship communication	This channel is used for onboard communication (the use of this channel is not allowed on board of small ships (below 20 m).			

156.875	156.875	Ship-to-ship communication	This channel is used for communications with a social character
156.900	161.500	Nautical information	
156.925	161.525	Nautical information	
156.950	161.550	Nautical information	
157.000	161.600	Nautical information	
157.025	161.625	Nautical information	
157.100	161.700	Nautical information	
157.125	161.725	Nautical information	
157.150	161.750	Nautical information	
157.200	161.800	Nautical information	
157.225	161.825	Nautical information	
157.250	161.850	Nautical information	
157.300	161.900	Nautical information	
157.350	161.950	Nautical information	
157.400	162.000	Nautical information	
157.425	157.425	Nautical information	This channel is used for special events on a temporary basis and requires authorization obtained from the relevant authorities.
161.975	161.975	AIS	This channel is used for Automatic Identification System - AIS
162.025	162.025	AIS	This channel is used for Automatic Identification System - AIS

Table 4 – Use of radio frequencies on inland waterways of the Republic of Serbia

The use of radio frequencies on inland waterways of other countries is governed by the "Regional Arrangement concerning the Radiotelephone Service on Inland Waterways" (Basel, 2000).

#### Article 11

Automatic Transmitter Identification System – ATIS shall be mandatory for all fixed VHF radiotelephone equipment and portable VHF radiotelephone equipment which is used on inland waterways and shall be in compliance with the technical requirements stipulated in Annex B of ETSI (European Telecommunications Standards Institute) EN 300 698 standard.

The assignment of ATIS codes shall be carried out by the Agency.

In cases where the equipment operating within the Automatic Identification System - AIS is used on a vessel, the use of Maritime Mobile Service Identity codes - MMSI codes is compulsory.

The assignment of MMSI codes shall be carried out by the Agency.

#### Article 12

The output power of the fixed VHF radiotelephone equipment used on inland waterways shall be set to a value between 0.5 and 25W, however:

- a) the output power of VHF radiotelephone equipment for frequencies designated for service categories ship-to-ship, ship-to-port and on board communications shall be limited automatically to a value between 0.5 and 1 W;
  - b) the output power of AIS equipment shall not exceed 12.5 W.

The output power of the portable VHF radiotelephone equipment used on inland waterways must be set to a value between 0.5 and 6 W, where the output power for frequencies designated for service categories ship-to-ship, ship-to-port and on board communications shall be limited automatically to a value between 0.5 and 1 W.

#### **Article 13**

Radiotelephone equipment used on inland waterways shall be in compliance with the following ETSI standards:

- EN 300 698 for fixed VHF equipment;
- EN 301 178 for portable VHF equipment.

#### Article 14

Person operating a ship radio station within the international river traffic must hold the relevant certificate.

The certificate for operating a ship radio station shall be issued by the relevant ministry in accordance with Article 47 of Radio Regulations.

#### Article 15

The manner of use of radio frequencies at sea is prescribed by Appendix 17 (Frequency and channelling arrangements in the HF bands for the maritime mobile service), Appendix 18 (Table of transmitting frequencies in the VHF maritime mobile band) and Appendix 25 (Provisions and frequency allotment Plan for coast radiotelephone stations operating in the exclusive maritime mobile bands between 4 000 kHZ and 27 500 kHZ) of Radio Regulations.

The use of the MMSI code shall be compulsory for radiocommunications at sea.

The assignment of MMSI codes shall be carried out by the Agency.

#### Article 16

Apart from the ship radio station which is used for radiotelephone service, the use of radio equipment for radionavigation and radiolocation services (radar, AIS transponder, echo sounder, etc.) shall be permitted as well.

#### Article 17

The use of radio stations on board of vessels shall be allowed only with the purpose of securing sailing safety as well as for enabling communication with the relevant port authorities, the Agency in charge of port management and other owners or authorized users of ships and vessels.

Radio station may operate only on assigned radio frequencies, except in case of transmitting warning signs, calls, messages and notifications in case of a danger to a vessel, as well as in cases of natural disasters, rescues and other similar cases where the use of other frequencies is allowed provided that the manner of operation is adequate for a radio station to fulfil its task in removing immediate dangers.

#### Article 18

These Rules shall come into force on the eighth day following the day of their publication in the *Official Gazette of the Republic of Serbia*.

Ref. no: 1-01-3400-12 /11 Chairman In Belgrade, 7 July, 2011 of the Managing Board

prof. dr Jovan Radunović



01 Број дозволе / Licence no. \_\_\_\_\_\_ 60 Датум / Date \_\_\_\_\_

#### РЕПУБЛИКА СРБИЈА РЕПУБЛИЧКА АГЕНЦИЈА ЗА ЕЛЕКТРОНСКЕ КОМУНИКАЦИЈЕ

### REPUBLIC OF SERBIA REPUBLIC AGENCY FOR ELECTRONIC COMMUNICATIONS

# ДОЗВОЛА ЗА КОРИШЋЕЊЕ РАДИО-ФРЕКВЕНЦИЈА ЗА РАДИО-СТАНИЦУ LICENCE FOR THE USE OF RADIO FREQUENCIES FOR THE RADIO STATION

Издата на основу члана 86. Закона о електронским комуникацијама ("Службени гласник РС", број 44/10)

Issued pursuant to Article 86 of the Law on Electronic Communications (Official Gazette of the Republic of Serbia, no. 44/10)

30	Ималац дозволе:				
	Licence holder:				
302	Адреса: Address:				
50	Телефон:	e-mail:	moil:		
30	Telephone:	C-IIIaII.			
502	Шифра (делатности) корисника: Business activity code:				
	ОВИМ СЕ ДОЗВОЉАВА КОРИЦ	<b>ПЋЕЊЕ РАДИО-ФРЕКВЕ</b>	НЦИЈА ЗА	РАДИО-СТАНИ	ЩУ
	THIS IS TO CERTIFY THE USE	OF RADIO FREQUENCIE	S FOR THE	E RADIO STATIO	N
90215	Јединица фреквенције Assigned frequency				
90216	Предајна фреквенција Transmitting frequency				
90225	Фреквенција у вези са горњом (при Assigned frequency in relation to the etc.)				
90235	Редни број канала Channel number				
90240	Врста радио-станице Class of station				
90244	Врста радио-службе Nature of service				
90301	Локација предајника Name of the location of the radio stat	ion			
90307	Назив уже локације предајника Name of more specific location of the			1	
90326	Географска дужина и ширина по Г Geographic coordinates of the radio	риничу (WGS координате)			
90341	Надморска висина терена (m) Altitude of site above sea level (m)	,	l l		
90345	Знак идентификације Station identification			1	
90407	Ширина опсега заузета емисијом, и Class of emission and necessary band				
90419	Код снаге Power code		I		
90420	Јединица снаге Power unit				
90421	Bредност снаге Power value				ı

90426	Померај фреквенције (offset) TV предајника и Frequency offset / offset of TV transmitter and rep				
90507	Висина предајне антене изнад терена (m) Height of antenna above ground level (m)				
90511	Ефективна висина предајне антене (m) Effective transmitting antenna height (m)				
90519	Тип предајне антене Туре of transmitting antenna			1	
90522	Поларизација Polarization				
90523	Усмереност предајне антене Directivity of antenna				
90525	Азимут максималног зрачења Azimuth of maximum radiation				ı
90528	Угао ширине главног снопа предајне антене Angular beamwidth of radiation main lobe				
90531	Добитак предајне антене/антенског система (di Antenna gain (dB)	B)			
90533	Елевациони угао главног снопа Elevation angle of maximum directivity				
90536	Однос напред-назад (dB) Forward – backward ratio				
90541	Доња граница фреквенцијског опсега Lower frequency limit of the frequency band				
90547	Горња граница фреквенцијског опсега Upper frequency limit of the frequency band				
90701	Селективност и осетљивост пријемника Receiver selectivity and sensitivity				
90827	Време рада Hours of operation				
90835	Максимално радно време радио-станице Maximum hours of operation			l .	
90840	Покретљивост радио-станице Radio station mobility				
90842	Број радио-станица у мрежи Number of radio stations within the network				
90845	Произвођач радио-станице, тип радио-станице Radio station manufacturer type of radio station				
90846	Серијски број радио-станице Radio station serial number				
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	nspection deadline	STAMP		Officer in charge	
	а 8, 11000 Београд, РЕПУБЛИКА СРБИЈА 8, 11000 Belgrade, REPUBLIC OF SERBIA		Contact center & fax: website:	+381 11 3242 6	73



# РЕПУБЛИКА СРБИЈА, РЕПУБЛИЧКА АГЕНЦИЈА ЗА ЕЛЕКТРОНСКЕ КОМУНИКАЦИЈЕ REPUBLIC OF SERBIA, REPUBLIC AGENCY FOR ELECTRONIC COMMUNICATIONS RÉPUBLIQUE DE SERBIE, AGENCE RÉPUBLIQUE POUR LES COMMUNICATIONS ÉLECTRONIQUES

### ДОЗВОЛА ЗА РАДИО-СТАНИЦУ НА ВАЗДУХОПЛОВУ

#### AIRCRAFT STATION LICENCE LICENCE DE STATION D'AÉRONEF LICENCIA DE ESTACION DE AERONAVE

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Уређаји Equipment	Тип Туре	Снага Power	Врста емиси Class of emissi				ьене фреквенције gned frequencies	
Предајници Transmitters								
Предајници на средствима за спасавање (ако постоје) Survival craft transmitters (when applic.)								
Други уређаји Other equipment Датум почетка корг	ишћења пап	ио-фреквен	шија	R	nk za obavlja	nie tehničk	og pregle	da
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Višnjićeva 8, 11000 Belgrade, REPUBLIC OF SERBIA

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Други уређаји Other equipment						
Датум почетка кориг Date of beginning of					za obavljanje tehnič nical inspection dea	
Наплаћена накнада Radio station licence						
Београд / Belgrade Место Place		Датум Date	M.I STAN			ис овлашћеног лица Officer in charge

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