

Prague, 13 October 2009  
Ref.: 8 940/2009--605

On the basis of public consultation under Section 130 of the Act No. 127/2005 Coll., on electronic communications and on amendment to certain related acts (the Electronic Communications Act), as amended (hereinafter „the Act“) and on the basis of the decision of the Council of the Czech Telecommunications Office (hereinafter „the Office“) under Section 107(8)(b)(2) of the Act and in order to implement Section 16(2) of the Act, the Office as the appropriate state administration body under Section 108(1)(b) of the Act hereby issues this Measure of General Nature

**Part No. PV-P/1/10.2009-15  
of the Radio Spectrum Utilisation Plan  
for the frequency band 146--174 MHz.**

Article 1  
**Introductory provision**

This part of the Radio Spectrum Utilisation Plan sets down the technical characteristics and conditions of use of radio spectrum in the frequency band from 146 MHz to 174 MHz by radiocommunication services. This part of the Radio Spectrum Utilisation Plan is follow-up to the Common part of the Radio Spectrum Utilisation Plan<sup>1)</sup>.

Part 1  
**General information on the frequency band**

Article 2  
**Frequency bands**

Band (MHz)	Current conditions		Future harmonisation <sup>2)</sup>	
	Allocation	Utilisation	Allocation	Utilisation
146--148	FIXED MOBILE except aeronautical mobile (R)	Mobile networks MD	MOBILE	Mobile networks MD

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<sup>1)</sup> Common part of the Radio Spectrum Utilisation Plan Nr. PV/10.2005-35 published in the Telecommunication Journal 14/2005 .

<sup>2)</sup> CEPT/ERC Report No. 25: European Table of Frequency Allocations and Utilisations in the frequency range 9 kHz to 3000 GHz, rev. Baku, 2008.

This is an unofficial translation. The legally binding text is the original Czech version.

148-149.9	FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) 3)	LEO satellites Mobile networks MD	MOBILE MOBILE SATELLITE (Earth-to-space) 3)	LEO satellites Mobile networks MD
149.9-150.05	MOBILE-SATELLITE (Earth-to-space) RADIONAVIGATION- SATELLITE	LEO satellites Radionavigation MD	MOBILE MOBILE-SATELLITE (Earth-to-space) RADIONAVIGATION- SATELLITE	LEO satellites Mobile networks MD
150.05-153	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY 4)	Mobile networks Radio astronomy	MOBILE except aeronautical mobile RADIO ASTRONOMY 4)	Mobile networks Radio astronomy
153-154	FIXED MOBILE except aeronautical mobile (R) Meteorological aids	Mobile networks Meteorological radiosondes MD	MOBILE except aeronautical mobile	Mobile networks Meteorological radiosondes MD
154-155.5	FIXED MOBILE except aeronautical mobile (R)	Mobile networks MD	MOBILE except aeronautical mobile	Mobile networks MD
155.5- 156.4875	FIXED MOBILE except aeronautical mobile (R)	Mobile networks Communication of vessels	MOBILE except aeronautical mobile	Mobile networks Communication of vessels
156.4875- 156.5625	MARITIME MOBILE (distress and calling) 5)	Distress and calling DSC frequency 156.525 MHz	MARITIME MOBILE (distress and calling)	Distress and calling DSC frequency 156.525 MHz
156.5625- 156.7625	FIXED MOBILE except aeronautical mobile (R)	Mobile networks Communication of vessels	MOBILE except aeronautical mobile	Mobile networks Communication of vessels

<sup>3)</sup> In accordance with footnote 5.218 of the Radio Regulations the band is additionally allocated also to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under procedure set down in provision No. 9.21 of the Radio Regulations.

<sup>4)</sup> In accordance with footnote 5.149 of the Radio Regulations shall users of the band 150.05--153 MHz take all practicable measures to protect the radio astronomy service.

<sup>5)</sup> In accordance with footnote 5.227 of the Radio Regulations are the bands 156.4875---156.5125 MHz and 156.5375-156.5625 MHz also allocated to the fixed and land mobile services on a primary basis. The use of these bands by the fixed and land mobile services shall not cause harmful interference to nor claim protection from the maritime mobile VHF radiocommunication service.

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156.7625 - 156.8375	MOBILE except aeronautical mobile MARITIME MOBILE (distress and calling)	Communication of vessels Distress and calling frequency 156.8 MHz	MARITIME MOBILE (distress and calling)	Communication of vessels Distress and calling frequency 156.8 MHz
156.8375- 157.425	FIXED MOBILE except aeronautical mobile	Mobile networks Communication of vessels	MOBILE except aeronautical mobile	Mobile networks Communication of vessels
157.425- 160.625	FIXED MOBILE except aeronautical mobile	Mobile networks MD	MOBILE except aeronautical mobile	Mobile networks MD
160.625- 162.5	FIXED MOBILE except aeronautical mobile	Mobile networks Communication of vessels Identification of vessels AIS1 161.975 MHz AIS2 162.025 MHz	MOBILE except aeronautical mobile	Mobile networks Communication of vessels Identification of vessels AIS1 161.975 MHz AIS2 162.025 MHz
162.5- 165.5125	FIXED MOBILE except aeronautical mobile	Mobile networks MD	MOBILE except aeronautical mobile	Mobile networks MD
165.5125- 170.4875	FIXED MOBILE except aeronautical mobile	Mobile networks SRD ERMES MD	MOBILE except aeronautical mobile	Mobile networks Paging SRD MD
170.4875- 172.5125	FIXED MOBILE except aeronautical mobile	Mobile networks MD	MOBILE except aeronautical mobile	Mobile networks MD
172.5125 - 174	FIXED MOBILE except aeronautical mobile	Mobile networks SRD	MOBILE except aeronautical mobile	Mobile networks SRD

### Article 3

#### Frequency band characteristics

(1) Frequency band 146-174 MHz is in civil use designated mainly for land mobile service. Parts of the band are used for the maritime mobile service and communication on inland waterways. The band is also used by the mobile-satellite service, radio astronomy service and meteorological aids service.

(2) The use of the band in the Czech Republic in the past did not correspond to proposal on harmonised utilisation of the band by European countries particularly in sub-bands proposed by the ERC Report<sup>2)</sup> for mobile networks, which are till now partly used for non-civil purposes and in arrangement of these sub-bands, which did not correspond to the CEPT Recommendation<sup>6)</sup>. This discrepancy, particularly in division of the frequency band into simplex and duplex sub-bands and in the value of duplex spacing, is causing difficulties in international frequency coordination. Gradual harmonisation of the band utilisation is currently in progress.

<sup>6)</sup> Recommendation CEPT/ERC T/R 25--08 -- Planning criteria and coordination of frequencies in the land mobile service in the range 29.7-960 MHz.

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## Article 4 International obligations

Provisions of the Radio Regulations<sup>7)</sup> (hereinafter „RR“) and its Appendix No. 18, which contains VHF frequency arrangement of the Maritime mobile service, HCM Agreement<sup>8)</sup> and RAINWAT Arrangement<sup>9)</sup> apply to operation and coordination.

## Part 2 Mobile service

### Article 5 Current conditions in the mobile service

(1) The mobile service in the band 146-174 MHz comprises land mobile service and maritime mobile service.

(2) For newly issued authorisations, the Office proceeds in accordance with CEPT Recommendation<sup>6)</sup> and with ERC Report<sup>2)</sup> and following conditions apply:

a) for simplex operation are designated sub-bands 146-146.8 MHz, 149.9-150.05 MHz, 154.5-154.65 MHz, 160.975-161.475 MHz, 165.2-165.225 MHz and 169.4-169.825 MHz;

b) for duplex operation are designated sub-bands 146.8-149.9 / 151.4-154.5 MHz, 150.05-151.4 / 154.65-156 MHz, 157.45-160.6 / 162.05-165.2 MHz and 165.225-169.4 / 169.825-174 MHz. Duplex spacing is 4.6 MHz, in lower sub-band transmit terminals and in upper one transmit base stations;

c) channel separation is 12.5 kHz;

d) centre frequencies of radio channels are given by formula

$$f_n \text{ [MHz]} = (146 - 0.00625 + 0.0125n) + 0.00625,$$

where n is 1 up to 2239;

e) maximum e.r.p. is 10 W.

Use of frequencies, which is not in accordance with this Recommendation, is possible until the end of validity of authorisation, but no later than until 31 December 2014.

(3) Sub-band 146-147 MHz has no civil use until 31 December 2010.

(4) For nationwide mobile networks PMR/PAMR<sup>10)</sup> operated for purposes of railway transport are designated sub-bands 148.2-149.05 MHz, 150.05-150.975 MHz, 152.8-153.65 MHz, 157.45-158.375 MHz and apply, that

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7) Radio Regulations, International Telecommunication Union, Geneva, 2008.

8) HCM Agreement -- Agreement between the Administrations of Austria, Belgium, the Czech Republic, Germany, France, Hungary, the Netherlands, Croatia, Italy, Liechtenstein, Lithuania, Luxembourg, Poland, Romania, the Slovak Republic, Slovenia and Switzerland on the co-ordination of frequencies between 29.7 MHz and 39.5 GHz for the fixed service and the land mobile service, Vilnius, 2005.

9) RAINWAT - Regional Arrangement concerning the Radiotelephone Service on Inland Waterways, Basel, 2000, as amended.

10) Abbreviation PAMR stands for Public Access Mobile Radio (PMR network with access point to public networks).

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- a) in sub-bands 148.2-149.05 MHz and 152.8-153.65 MHz no new networks and links are permitted if do not correspond to described purpose. Within existing networks and links is possible to carry out only such changes that do not constrain development of mobile PMR/PAMR networks operated for purposes of railway transport;
- b) only legal person, which is rail operator or railway transport operator pursuant to the special legal enactment<sup>11)</sup> or which is managing the state property consisting the railway transport way<sup>12)</sup> and which is awarded by the individual authorisation for radio frequencies utilisation, may be operator of the network;
- c) sub-bands 150.05-150.975 MHz and 157.45-158.375 MHz may be used for above mentioned purpose no later than till 31 December 2013;
- d) the Office can authorise the holder of individual authorisation for use of radio frequencies to carry out nationwide frequency planning in given sub-bands. International frequency coordination and coordination with other users of frequencies carries out the Office on basis of application submitted by the holder of individual authorisation for use of radio frequencies;
- e) in the sub-bands mentioned in paragraph 4 is possible also simplex operation. In simplex operation, the lower sub-band is preferably used by mobile stations, the upper sub-band is preferably used by base stations;
- f) operation of stations is possible on basis of General Authorisation<sup>13)</sup>.

(5) Frequencies 149.125 MHz, 149.25 MHz, 155.725 MHz and 156,15 MHz may be used for data communication by portable stations using common frequency on basis of General Authorisation<sup>14)</sup>. Maximum radiated power is 0.5 W e.r.p., channel separation is 25 kHz.

(6) Sub-bands 149.15-149.225 MHz, 149.275-149.35 MHz and frequency 151.95 MHz are used by stations for data transmission. Maximum radiated power is 1 W e.r.p., channel separation is 25 kHz.

(7) Frequencies 149.4 MHz, 149.475 MHz and 149.55 MHz are used by wideband wireless microphones. Maximum radiated power is 50 mW e.r.p., channel separation is 75 kHz.

(8) Frequencies 151.05 MHz, 151.125 MHz, 151.2 MHz, 151.275 MHz, 151.35 MHz, 151.45 MHz, 151.6 MHz, 151.675 MHz, 151.85 MHz and 151,925 MHz are used for local paging, channel separation is 25 kHz.

(9) Frequencies 151.225 MHz, 151.65 MHz, 151.8 MHz, 151.875 MHz, 151.9 MHz, 151.975 MHz and 152 MHz are used by stations for data transmission. Maximum radiated power is 10 W e.r.p., channel separation is 25 kHz.

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<sup>11)</sup> Act No. 266/1994 Coll., on railways, as amended.

<sup>12)</sup> Act No. 77/2002 Coll., on the Joint-stock company České dráhy, the State organisation Správa železniční dopravní cesty and on amendment of Act No. 266/1994 Coll., on railways, as amended and on amendment of Act No. 77/1997 on State enterprise, as amended.

<sup>13)</sup> General Authorisation No. VO-R/11/07.2005-21 for the operation of the equipment of the non-public radio networks of the land mobile service on the 150 MHz and 450 MHz bands for use in rail transport.

<sup>14)</sup> General Authorisation No. VO-R/16/08.2005-28 for the use of radio frequencies and for the operation of equipment jointly operated on predetermined frequencies in the 27 MHz to 450 MHz band.

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(10) Frequencies 151.4 / 155.9 MHz, 151.475 / 155.975 MHz, 151.55 / 156.05 MHz, 156.075 / 151.575 MHz and 151.525 / 156.025 MHz are used in duplex operation by stations for data transmission. Duplex spacing is 4.5 MHz, maximum radiated power is 10 W e.r.p., channel separation is 25 kHz.

(11) Arrangement RAINWAT<sup>9)</sup> refers to use of frequencies within sub-bands 156-157.45 MHz, 160.6-160.975 MHz and 161.475-162.05 MHz. These frequencies are preferentially used by the maritime mobile service applications, described in Article 9 of this part of the plan. Land mobile service networks can not constrain implementation of maritime mobile service applications, or claim protection from them.

(12) Frequency 161.1375 MHz on regional level and frequency 161.2 MHz on nationwide level are designated exclusively for voice communication in order to ensure interoperability of medical emergency service organisations.

(13) Frequency 169.375 MHz is designated exclusively for voice communication in order to ensure interoperability of fire protection units.

(14) The use of sub-band 169.4-169.8125 MHz is in the framework of the European Community harmonised by Commission Decision<sup>15)</sup>. Channel arrangement plan is set down in Annexes of these Decisions and following conditions apply:

- a) sub-band 169.4-169.6 MHz<sup>16)</sup> is allocated to preferred applications of exclusive use for hearing aids, exclusive use for social alarms, non-exclusive use for meter reading systems and non-exclusive use for transmitters for tracking and tracing systems. Applications may be used on basis of General Authorisation<sup>20)</sup>;
- b) sub-band 169.6125-169.8125 MHz<sup>17)</sup> is allocated to preferred applications of transmitters for tracking and tracing systems and existing paging systems or paging systems transferred from other channels. Applications of tracking and tracing systems are operated in regime of frequency sharing with more users. Mutual influence or interference in such case is not considered as harmful interference;
- c) provided, that harmonised implementation of preferred applications is not endangered, as alternative the hearing aids may be operated in sub-band 169.4-169.475 MHz and systems for tracking, paging systems or temporary used systems or systems of non-public mobile networks on national level in sub-band 169.6125-169.8125 MHz;
- d) maximum radiated power in the part described under letter a) is 0.5 W e.r.p.;
- e) maximum duty cycle<sup>18)</sup> of applications of tracking and tracing systems shall not exceed 1%, in sub-band 169.4-169.6 MHz for meter reading systems shall not exceed 10%;
- f) sub-band 169.6-169.6125 MHz is guard band;
- g) operation of paging systems as well as of systems of non-public mobile networks, which is allowed on day of announcement of Decision<sup>15)</sup> and which is not in accordance with letters a) up to f), may continue until expiration of validity of

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<sup>15)</sup> Commission Decision 2005/928/ES of 20 December 2005 on the harmonisation of the 169.4-169.8125 MHz frequency band in the Community and Commission Decision 2008/673/ES of 13 August 2008 by which is amended Decision 2005/928/ES.

<sup>16)</sup> Sub-band is known as part of low power.

<sup>17)</sup> Sub-band is known as part of high power.

<sup>18)</sup> Duty cycle enables sharing of systems operated in the same frequency range. It is defined by per cent expression of total of all time periods of transmissions on one carrier frequency during given period in relation to this period.

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authorisation for mentioned services, if this authorisation exists on day of announcement of above mentioned Decision;

h) paging service ERMES<sup>19)</sup> uses frequency 169.425 MHz. Maximum radiated power is 200 W e.r.p., channel separation 25 kHz.

(15) Frequencies 170.275 MHz, 170.425 MHz, 170.475 MHz, 173.025 MHz and 173.1 MHz are used by stations for data transmission a local paging, channel separation is 25 kHz.

(16) Frequencies 172.525 MHz, 172.575 MHz, 173.65 MHz and 173.95 MHz are used by short range devices for remote control of cranes, forest machines, railway trails and other machinery. Stations may be operated on basis of General Authorisation<sup>20)</sup>.

(17) Frequencies 172.65 MHz, 172.725 MHz, 172.95 MHz, 172.975 MHz and 173.05 MHz may be used for voice communication by means of portable stations using common frequency on basis of General Authorisation<sup>14)</sup>. Channel separation is 12.5 kHz, with complementary channel separation 25 kHz may frequencies be used till 31 December 2010 at latest. Maximum radiated power of stations operated on frequencies

a) 172.65 MHz, 172.95 MHz and 172.975 MHz is 5 W e.r.p.;

b) 172.725 MHz or 173.05 MHz is 1 W e.r.p.

(18) Frequencies 173.275 MHz and 173.325 MHz are used by stations for data transmission. Maximum radiated power is 0.5 W, channel spacing is 25 kHz.

(19) Frequency 173.3 MHz and sub-band 173.965-174.015 MHz are used by wireless microphones, which may be used on basis of General Authorisation<sup>20)</sup>.

(20) For planning of networks the Office uses following parameters:

- a) minimum useful intensity of electromagnetic field 20 dB $\mu$ V/m;
- b) acceptable interfering intensity of electromagnetic field 12 dB $\mu$ V/m;
- c) planning maximum effective height of antenna is 35 m;
- d) planning effective height of base station antenna is 10 m above terrain;
- e) planning height of mobile station antenna and of remote control and signalisation terminal above terrain is 3 m;
- f) nominal repeating distance of frequency raster is 90 km;
- g) maximum operational range is 20 km;
- h) if not stated otherwise, maximum e.r.p. is 10 W;
- i) maximum occupied bandwidth is 11 kHz for channel separation 12.5 kHz, or 16 kHz for channel separation 25 kHz;
- j) in the case of transponders (repeater stations) the higher frequency belongs to repeater station;
- k) in the case of transponders, the holder of individual authorisation is obliged to prevent by adequate technical means the origin of harmful interference, which should

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<sup>19)</sup> Abbreviation ERMES stands for European Radio Messaging System.

<sup>20)</sup> General Authorisation No. VO-R/10/06.2009-9 for the use of radio frequencies and for the operation of short range devices.

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happen by influence of extraordinary circumstances in propagation of electromagnetic waves;

- l) in the case of national coordination the provisions of HCM Agreement are reasonably applied;
- m) as the terminal for remote control and signalisation in networks designated for remote control and signalisation is considered such terminal stationary transmitting radio equipment, which transmits with duty cycle<sup>18)</sup> smaller than 1 % and at the same time the period of their single transmission does not exceed 1 s and their maximum e.r.p. does not exceed 10 W.

(21) Frequencies for ensuring and operation of common warning and notification system pursuant to special legal regulation<sup>21)</sup> are used with channel separation of 25 kHz.

(22) For stations operated by user pursuant to Act<sup>22)</sup> in sub-bands described by Article 5, paragraph 2, letter b), is possible also simplex operation, whereas lower sub-band is preferentially used by mobile stations, upper sub-band is preferentially used by base stations.

(23) Coordination of civil and non-civil utilisation carries out the Office.

#### Article 6

#### **Information on future development in the mobile service**

(1) Gradual harmonisation of band utilisation is assumed, depending on termination of operation of equipment with operational conditions set down on the basis of original planning parameters.

(2) Frequencies of sub-bands 156-157.45 MHz, 160.6-160.975 MHz and 161.475-162.05 MHz will be preferentially used by the maritime mobile service applications pursuant to Article 9 and 10. Subject to not constrain implementation of the maritime mobile service applications the frequencies will be used also for communication related to ensuring of water transport, maintenance of water courses, water rescue service and for granting of short-term authorisations. Operation of other land mobile service networks, particularly with respect to international commitments, will be gradually terminated.

(3) Releasing of frequencies in the band 146-147 MHz from non-civil applications is assumed.

(4) Release of sub-bands of spectrum in relation with completion of transition to harmonized use of frequencies for purposes of railway transport is assumed.

#### Part 3

#### **Fixed service**

#### Article 7

#### **Current conditions in the fixed service**

The fixed service in this band is not operated in the Czech Republic. Footnote of ERC Report<sup>23)</sup> mentions, that the fixed service in the band is limited to low-capacity fixed links in

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<sup>21)</sup> Act No. 239/2000 Coll., on Integrated Rescue System, as amended.

<sup>22)</sup> Act No. 238/2000 Coll., on Fire Rescue Brigade of the Czech Republic, as amended.

<sup>23)</sup> Footnote EU7 of ERC Report No. 25.

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rural areas. These links, similarly as links used for connection of controlling station with repeater station or for data transmission to remotely controlled objects, are for frequency planning purposes and coordination considered as links in the land mobile service framework.

#### Article 8

#### **Information on future development in the fixed service**

Utilisation of the band by the fixed service is not assumed.

#### Part 4

#### **Maritime mobile service and radiocommunication on inland waterways**

#### Article 9

#### **Current conditions in the maritime mobile service and radiocommunication on inland waterways**

(1) In accordance with provision of RR Appendix<sup>24)</sup> and RAINWAT Arrangement<sup>9)</sup>, selected frequencies in sub-band 156-157.45 MHz, 160.6-160.975 MHz and 161.475-162.05 MHz may be preferentially used by applications of the maritime mobile service and on inland waterways.

(2) For radiocommunication on inland waterways in framework of the maritime mobile service following conditions apply:

- a) simplex and duplex operation;
- b) duplex spacing 4.6 MHz;
- c) channel separation 25 kHz;
- d) maximum output power of portable VHF equipment within range 0.5-6 W;
- e) maximum output power of fixed VHF equipment within range 6-25 W;
- f) further technical and operational conditions are governed by special legal regulation<sup>25)</sup> and by provisions of RAINWAT Arrangement<sup>9)</sup>.

(3) For radiocommunication ship-to-ship are designated frequencies 156.5 MHz (channel No. 10 pursuant to Appendix<sup>24)</sup> of RR) and 156.65 MHz (channel No. 13 pursuant to Appendix<sup>24)</sup> of RR). For operation on frequency channels of ship-to-ship service category<sup>26)</sup> the output power of the ship station shall be limited automatically to a value between 0.5-1 W.

(4) For transmission of shipping information are designated frequencies 156.4 MHz (channel No. 8 pursuant to Appendix<sup>24)</sup> of RR), 156.45 MHz (channel No. 9 pursuant to Appendix<sup>24)</sup> of RR), 156.7 MHz (channel No. 14 pursuant to Appendix<sup>24)</sup> of RR) and 157.025 MHz / 161.625 MHz (channel No. 80 pursuant to Appendix<sup>24)</sup> of RR). For operation on frequency channels of nautical information service category<sup>26)</sup> the output power of ship station shall be limited automatically to a value between 0.5-1 W.

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<sup>24)</sup> Appendix No. 18 of RR.

<sup>25)</sup> Decree of the Ministry of Transport and Communications No. 138/2000 Coll., on the radiotelephone operation on inland waterways.

<sup>26)</sup> RAINWAT Arrangement terminology.

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(5) For radiotelephone distress, urgency and safety communication and for calling (establishing of connection) is in accordance with RR footnote<sup>27)</sup> designated frequency 156.8 MHz (channel No. 16 pursuant to Appendix<sup>24)</sup> of RR). Frequency 156.8 MHz may be in accordance with RR footnote<sup>32)</sup> and procedures for terrestrial radiocommunication services used for search and rescue operations concerning manned space vehicles.

(6) For connection ship-to-port authorities are designated frequencies 156.55 MHz (channel No. 11 pursuant to Appendix<sup>24)</sup> of RR), 156.575 Mhz (channel No. 71 pursuant to Appendix<sup>24)</sup> of RR), 156.625 MHz (channel No. 72 pursuant to Appendix<sup>24)</sup> of RR) and 156.725 MHz (channel No. 74 pursuant to Appendix<sup>24)</sup> of RR). For operation on frequency channels of ship-to-port authorities service category<sup>26)</sup>, the output power of ship station shall be reduced automatically to a value between 0.5-1 W.

(7) For on board communications are designated frequencies 156.75 MHz (channel No. 15 pursuant to Appendix<sup>24)</sup> of RR) and 156.85 MHz (channel No. 17 pursuant to Appendix<sup>24)</sup> of RR) with maximum e.r.p. 1 W.

(8) For use within framework of river information services RIS<sup>28)</sup> are in accordance with RR Appendix<sup>24)</sup> and CEPT Decision<sup>29)</sup> designated frequencies 161.975 MHz (AIS 1) a 162.025 MHz (AIS 2). Output power of station for AIS transmission shall not exceed 25 W.

(9) Frequency 156.525 MHz (channel No. 70 pursuant to Appendix<sup>24)</sup> of RR) is according to RR footnote<sup>27)</sup> designated for the maritime mobile service exclusively for mode DSC<sup>30)</sup> for distress, urgency and safety communication or for calling. Conditions for use of this frequency are prescribed in RR<sup>31)</sup>. This status shall be observed when using this frequency in the Czech Republic. Use of DSC on inland waterways is not permitted. Frequency 156.525 MHz may be in accordance with RR footnote<sup>32)</sup> and procedures for terrestrial radiocommunication services used for search and rescue operations concerning manned space vehicles.

(10) Vessels, to which in accordance with RAINWAT Arrangement<sup>9)</sup> was assigned ATIS code<sup>33)</sup>, shall in case of transmitting use the identification by this code pursuant to RAINWAT Arrangement.

## Article 10

### **Information on future development in the maritime mobile service and in radiocommunication on inland waterways**

(1) Release of further frequencies for purposes of communication on inland waterways, particularly frequencies designated for shipping information, is expected.

(2) Development of river information systems RIS<sup>28)</sup> in the maritime mobile service is assumed.

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<sup>27)</sup> Footnote 5.226 of RR.

<sup>28)</sup> Abbreviation RIS stands for River Information System.

<sup>29)</sup> Decision CEPT/ERC/DEC/(99)17 of 1 June 1999 on the Universal Shipborne Automatic Identification System (AIS) channels in the maritime VHF band.

<sup>30)</sup> Abbreviation DSC stands for Digital Selective Calling, i.e. class of operation for distress, safety communication and call in order to establish connection.

<sup>31)</sup> Article 31 and Appendix of RR.

<sup>32)</sup> Footnote 5.111 of RR.

<sup>33)</sup> Abbreviation ATIS stands for Automatic Terminal Information Service.

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Part 5  
**Mobile-satellite service**

Article 11  
**Current conditions in the mobile-satellite service**

(1) The band 148-150.05 MHz is allocated to the mobile-satellite service on a primary basis and its use is in accordance with RR footnote<sup>34)</sup> limited to non-geostationary satellite systems.

(2) Use of the band 148-149.9 MHz by the mobile-satellite service is, in accordance with RR footnotes<sup>35)</sup>, subject to coordination under provision of RR<sup>36)</sup>. The mobile-satellite service shall not constrain development and operation of the fixed and mobile service and space operation service in the band 148-149.9 MHz and of the radionavigation-satellite service in the band 149.9-150.05 MHz.

(3) In accordance with RR footnote<sup>37)</sup> the use of the band 149.9-150.05 MHz by the mobile-satellite service (Earth-to-space) till 1 January 2015 is limited to land mobile-satellite service (Earth-to-space).

(4) In accordance with ERC Report<sup>2)</sup> is the band 148-150.05 MHz designated for communication in Earth-to-space direction with satellites on low orbits. CEPT Decision<sup>38)</sup> sets down conditions of harmonized implementation of satellite systems for personal communication S-PCS<sup>39)</sup> (low speed data transmission service) in the bands below 1 GHz. In the Czech Republic may be in the band 148-149.9 MHz operated terminals of systems for personal communication on the basis of General Authorisation<sup>40)</sup>. Coordination of frequencies for satellite systems proceeds pursuant to relevant RR provisions.

Article 12  
**Information on future development in the mobile-satellite service**

Changes in the utilisation of the band by this radiocommunication service are not envisaged on international or national levels.

Part 6  
**Radionavigation-satellite service**

Article 13  
**Current conditions in the radionavigation-satellite service**

To the radionavigation-satellite service is allocated the band 149.9-150.05 MHz on a primary basis and this allocation is in accordance with RR footnote<sup>41)</sup> in force until 1 January 2015. The service is not used in the Czech Republic.

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<sup>34)</sup> Footnote 5.209 of RR.

<sup>35)</sup> Footnotes 5.219 and 5.220 of RR.

<sup>36)</sup> Provision No. 9.11A of RR.

<sup>37)</sup> Footnote 5.224A of RR.

<sup>38)</sup> Decision CEPT/ERC/(99)06 of 10 March 1999 on the harmonised introduction of satellite personal communication systems operating in the bands below 1 GHz (S-PCS<1GHz) ], Helsinki, 1999.

<sup>39)</sup> Abbreviation S-PCS stands for Satellite-Personal Communication System.

<sup>40)</sup> General Authorisation No. VO-R/22/02.2007-2 for the operation of satellite systems terminals for personal communication in the 150 MHz frequency band.

<sup>41)</sup> Footnote 5.224B of RR.

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#### Article 14

### **Information on future development in the radionavigation-satellite service**

Changes in the utilisation of the band by this radiocommunication service are not envisaged on international or national levels.

#### Part 7

### **Radio astronomy service**

#### Article 15

### **Current conditions in the radio astronomy service**

Radio astronomy service is passive radiocommunication service based on receiving of the radio waves of space origin. Due to low levels of receiving signals the operation of the service depends on protection from interference of other services. According to RR footnote<sup>4)</sup> shall users of the band 150.05-153 MHz take all practicable measures to protect the radio astronomy service.

#### Article 16

### **Information on future development in the radio astronomy service**

Changes in the utilisation of the band by this radiocommunication service are not envisaged on international or national levels.

#### Part 8

### **Meteorological aids service**

#### Article 17

### **Current conditions in the meteorological aids service**

In the meteorological aids service is possible to use the sub-band 153-154 MHz under conditions of a secondary service.

#### Article 18

### **Information on future development in the meteorological aids service**

Changes in the utilisation of the band by this radiocommunication service are not envisaged on international or national levels.

#### Part 9

### **Space operation service**

#### Article 19

### **Current conditions in the space operation service**

In accordance with RR footnote<sup>42)</sup> the band 148-149.9 MHz is additionally also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under procedure set down in RR provision<sup>43)</sup>. The bandwidth of any individual transmission shall not exceed  $\pm 25$  kHz.

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<sup>42)</sup> Footnote 5.218 of RR.

<sup>43)</sup> Provision No. 9.21 of RR.

This is an unofficial translation. The legally binding text is the original Czech version.

Article 20

**Information on future development in the space operation service**

Changes in the utilisation of the band by this radiocommunication service are not envisaged on international or national levels.

Part 10

**Final provisions**

Article 21

**Repealing provision**

This is to repeal Measure of General Nature Part No. PV-P/1/03.2006-13 of the Radio Spectrum Utilisation Plan for frequency band 146-174 MHz of 16 March 2006.

Article 22

**Effect**

This part of the Radio Spectrum Utilisation Plan comes into effect on 1 November 2009.

This is an unofficial translation. The legally binding text is the original Czech version.

### **Explanatory memorandum**

To implement Section 16(2) of the Act, the Office issues the Measure of General Nature Part No. PV-P/1/10.2009-15 of the Radio Spectrum Utilisation Plan (hereinafter „the part of the plan”), laying down the technical characteristics and conditions of the use of radio spectrum in the range of frequencies from 146 MHz to 174 MHz by radiocommunication services.

The part of the plan is based on the principles set down in the Act and in European legislation, especially in Directive 2002/21/EC of the European Parliament and of the Council on a common regulatory framework for electronic communications networks and services (Framework Directive) and Decision No 676/2002/EC of the European Parliament and of the Council on a regulatory framework for radio spectrum policy in the European Community (Radio Spectrum Decision) as well as on principles determined in the Common part of the Radio Spectrum Utilisation Plan No. PV/10.2005-35.

The reason of new issue of this part of the plan is its update on basis of results of the World Radiocommunication Conference WRC-07, issue of new harmonisation documents, implementation of harmonisation intentions, specification of future utilisation of the bands, amendment of planning parameters in the mobile service and projection of changes in the use of sub-bands for purposes of railway transport and of radiocommunication of inland ship transport. The part of the plan was structurally modified and from the text was set apart separate part with information on the maritime mobile service and on radiocommunication on inland waterways.

The purpose of this part of the plan is to ensure the transparency of conditions for radio spectrum use and the ability to anticipate the future decisions of the Office.

Article 2 consists of information from Plan of frequency spectrum allocations (National Table of Frequency Allocations). This information is amended by current usage by applications. At the same time the harmonisation intention is mentioned, i.e. allocation to services and utilisation by applications according to ERC Report 25: European Table of Frequency Allocations and Utilisations. From utilisation, the main applications are listed and further details are in relevant articles on individual radiocommunication services.

Article 3 presents characteristics of the band with information common to radiocommunication services using the band 146 MHz to 174 MHz.

Article 4 contains international obligations, which in case of the band in question means Radio Regulations of the International Telecommunication Union, HCM Agreement and RAINWAT Arrangement.

The most significant utilisation of the band is operation of links and networks in the framework of the mobile service. Conditions of utilisation of the band by the mobile service applications are described in the Part 2. Modification carried out were focused to harmonised use of spectrum by applications in the railway transport, selection of frequencies for voice communication for ensuring of interoperability of organisations of medical rescue service. Clarified are sharing conditions for applications using sub-band 169.6125-169.8125 MHz.

Part 3 contains information on possibility to use the band by the fixed service, Part 4 on the maritime mobile service and communication on inland waterways, Part 5 describes use of the band by the satellite service applications, Part 6 informs about allocation of the band to the radionavigation-satellite service. In Parts 7 to 9 are mentioned conditions for use of bands allocated to radio astronomy, meteorological aids a space operation services.

This is an unofficial translation. The legally binding text is the original Czech version.

In Part 10, in Article 21, is repealed previous issue of part of plan of frequency spectrum utilisation for band 146-174 MHz and in Article 22 the Office sets down the effect of published Measure of General Nature.

On the basis of Section 130 of the Act and in accordance with the Czech Telecommunication Office's Rules for maintaining consultations at the discussion site, the Office published the draft of Measure of General Nature the Part of the Radio Spectrum Utilisation Plan No. PV-P/1/XX.2009-YY, together with the Call for comments at the discussion site, on 21 August 2009. During public consultation, the Office received comments from one subject, which marked them as confidential. The Office comments accepted and amended text of measure accordingly.

On behalf of the Council  
of the Czech Telecommunication Office

Zdeněk Švrček  
Member of the Council  
of the Czech Telecommunication Office  
<signed>