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**Czech Telecommunication Office**  
with headquarters at Sokolovská 219, Prague 9  
P.O. Box 02, Prague 025, Postcode 225 02

Prague, 24 June 2005  
Ref.: 21681/2005-613

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) (the “Act”) and on the basis of the decision of the Council of the Czech Telecommunication Office (the “Office”) under Section 107(8)(b)(2) of the Act, and in order to implement Section 17(4) 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 No. OOP/13/07.2005-1**  
**laying down the extent of the data required to be contained in the application for individual**  
**authorisation for the use of radio frequencies.**

Article 1

**Introductory Provisions**

This Measure of General Nature lays down the extent of the data on radio frequencies, their technical parameters and the purpose of their use, which the applicant must include in the application for individual authorisation for the use of radio frequencies.

Article 2

**The Extent of the Data Required**

(1) The data required to be contained in the application for allocation of individual authorisation for the use of radio frequencies in the terrestrial mobile service are as follows:

a) for the transmitting radio equipment network:

1. type of transmission (phonic, non-phonic, paging, other);
2. the geographically delineated operating area required;
3. level of intensity of the electromagnetic field at the boundary of the operating area;
4. mode of operation;
5. type of broadcasting;
6. channel spacing;
7. polarisation;
8. the frequencies required;
9. number and list of equipment (of this: base equipment, mobile equipment, receivers, other), if the terminals are to be operated under a general authorisation;
10. category of the use of the transmitting radio equipment under international agreement<sup>1)</sup>;
11. frequency occupancy – transmission of the carrier wave (continuous, intermittent);

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<sup>1)</sup> 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 Fixed Service and Land Mobile Service, Berlin 2003.

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12. information about the processor of the technical data on the network;
  13. purpose of the use of the radio connection required;
  14. frequency pattern of the network;
- b) for the fixed transmitting radio equipment:
1. type of transmission equipment;
  2. code of the equipment type under international agreement<sup>1)</sup>;
  3. name of the location;
  4. location of the antenna system;
  5. geographic co-ordinates of the location in the WGS84 system<sup>2)</sup> (accuracy to 1 second);
  6. altitude of the location (accuracy to 10 m);
  7. frequencies required;
  8. height of the centre of the antenna system above the ground;
  9. maximum intensity of the electromagnetic field at the state border;
  10. radiation pattern of the antenna system;
  11. bearing and elevation of the maximum radiation;
  12. type designation of the antenna used;
  13. power parameters of the signal route;
  14. bearing of the maximum effective height;
  15. maximum effective height of the antenna (accuracy to 1 m) and the bearing of the antenna;
  16. diagram of covering the interfering intensity to a distance beyond the state border so as to indicate further course of the intensity outside the territory of the Czech Republic;
- c) for the mobile transmitting radio equipment and fixed terminals in the remote control and signalling networks:
1. equipment type code under international agreement<sup>1)</sup>;
  2. service type code under international agreement<sup>1)</sup>;
  3. number of pieces of the equipment;
  4. frequencies required;
  5. radius of the area served (accuracy to 100 m);
  6. geographic co-ordinates of the centre of the area served in the WGS84 system<sup>2)</sup> (accuracy to 1 second);
  7. maximum effective radiated power of the equipment;
  8. channel spacing.

(2) The data required for the individual locations to be contained in the application for the allocation of individual authorisation for the use of radio frequencies in the fixed service are as follows:

- a) type of connection;
- b) name/address of the location (city, street, house number);
- c) more details about the location;
- d) geographic co-ordinates of the location in the WGS84 system<sup>2)</sup> (accuracy to 1 second);
- e) altitude of the location (accuracy to 10 m);
- f) height of the centre of the antenna system above the ground (accuracy to 1 m);
- g) for the point-multipoint systems: delineation of the operating area in a raster grid map to a scale corresponding to the quarto (A4) format;
- h) type, manufacturer and attenuation of the cable and waveguide of the antenna used;
- i) antenna polarisation and gain;
- j) frequencies required;

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<sup>2)</sup> Government Order No. 116/1995, laying down the geodesic reference systems, the state map works binding on the entire territory of the state, and the principles of the use thereof

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- k) equipment output power supplied to the antenna feeder and the type of output regulation;
- l) type, manufacturer and conformity mark of the radio equipment;
- m) occupied bandwidth;
- n) Emission code (ITU designation);
- o) purpose and category of use;
- p) proposed operating frequencies and calculation of the quality of the required radio connection based on the prescribed methodology.

(3) The data for the individual locations required to be contained in the application for the allocation of individual authorisation for the use of radio frequencies in the radio service are as follows:

- a) name of the location;
- b) address and additional details about the location;
- c) geographic co-ordinates of the location in the WGS84 system<sup>2)</sup> (accuracy to 1 second);
- d) altitude of the location (accuracy to 10 m);
- e) required frequency or channel, including offset;
- f) Emission code (ITU designation);
- g) polarisation;
- h) height of the centre of the antenna system above the ground (accuracy to 1 m);
- i) maximum effective radiated power (ERP);
- j) radiation diagram in 10 degrees intervals (with indication of rejection in dB plotted against maximum effective radiated power);
- k) name of the broadcast programme;
- l) number of licence<sup>3)</sup>, if any;
- m) requirement for the radio data system (RDS) (for FM broadcasting);
- n) source of the primary signal.

(4) The data required to be contained in the application for the allocation of individual authorisation for the use of radio frequencies in the aeronautical mobile service are as follows:

- a) for the terrestrial transmitting radio equipment:
  - 1. type, number, power output and transmission type of the main transmitters;
  - 2. type, number, power output and transmission type of the standby transmitters;
  - 3. frequencies allocated;
  - 4. name of the location;
  - 5. location of the antenna system;
  - 6. geographic co-ordinates of the location in the WGS84 system<sup>2)</sup> (accuracy to 1 second);
  - 7. altitude of the location (accuracy to 10 m);
  - 8. purpose of the use of the frequencies;
  - 9. copy of the Ministry of Transport consent to frequency allocation;
- b) for the transmitting radio equipment aboard the aircraft:
  - 1. aircraft owner;
  - 2. aircraft type;
  - 3. serial number of the aircraft;
  - 4. type, number, output, frequency band and transmission type of the main transmitters;
  - 5. type, number, output, frequency band and transmission type of lifeboat transmitters;
  - 6. type, number, output, frequency band and transmission type of other radio transmitters;
  - 7. purpose of use of the frequencies.

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<sup>3)</sup> The Act No. 231/2001 Coll., on radio and television broadcasting.

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(5) The data required to be contained in the application for the allocation of individual authorisation for the use of radio frequencies in the maritime mobile service are as follows:

- a) for the transmitting radio equipment of the coastal stations:
  1. type, number, power output and transmission type of the main transmitters;
  2. type, number, power output and transmission type of the standby transmitters;
  3. frequencies allocated;
  4. name of the location;
  5. location of the antenna system;
  6. geographic co-ordinates of the location in the WGS84 system<sup>2)</sup> (accuracy to 1 second);
  7. altitude of the location (accuracy to 10 m);
  8. purpose of the use of the frequencies;
- b) for the transmitting radio equipment aboard the ship:
  1. vessel owner;
  2. vessel type;
  3. requirement for allocation of the ATIS code and the MMSI identification number;
  4. type, number, output, frequency band and transmission type of the main transmitters;
  5. type, number, output, frequency band and transmission type of lifeboat transmitters;
  6. type, number, output, frequency band and transmission type of other radio transmitters;
  7. purpose of use of the transmitters.

(6) The data required to be contained in the application for the allocation of individual authorisation for the use of radio frequencies in the radio navigation or radiolocation service are as follows:

- a) station type;
- b) name of the location;
- c) location of the antenna system;
- d) geographic co-ordinates of the location in the WGS84 system<sup>2)</sup> (accuracy to 1 second);
- e) altitude of the location (accuracy to 10 m);
- f) type, number and output of the radio equipment;
- g) frequencies required;
- h) Emission code (ITU designation);
- i) height of the centre of the antenna system above the ground (accuracy to 1 m);
- j) polarisation;
- k) radiation pattern of the antenna system;
- l) bearing of the maximum radiation with elevation;
- m) type designation of the antenna used and the type of reference antenna;
- n) antenna system gain;
- o) radius of the area served (accuracy to 10 km).

(7) The data required to be contained in the application for the allocation of individual authorisation for the use of radio frequencies in the satellite service are as follows:

- a) name of the terrestrial station;
- b) name of the location the location;
- c) location of the antenna system;
- d) geographic co-ordinates of the location in the WGS84 system<sup>2)</sup> (accuracy to 1 second);
- e) altitude of the location (accuracy to 10 m);
- f) name of the main VSAT terrestrial station, including the geographic co-ordinates in the WGS84 system (accuracy to 1 second);

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- g) station type (one of the following: HUB, terminal VSAT, FDMA, CDMA or TDMA, or terrestrial station);
- h) notification of the use of the possibility of multiple access to the operating channel;
- i) occupied bandwidth and the type of modulation;
- j) name and position of the satellite being received;
- k) antenna gain;
- l) antenna diameter;
- m) antenna azimuth and elevation;
- n) radiation diagram of the antenna based on ITU recommendation;
- o) signal route power parameters;
- p) service type.

(8) The data required to be contained in the application for the allocation of individual authorisation for the use of radio frequencies in the radio amateur service are as follows:

- a) for club stations and individuals' stations:
  - 1. address of the location;
  - 2. name, surname, call signal and date of birth; for club stations the lead operator's data should be indicated;
- b) for unattended stations:
  - 1. type of equipment;
  - 2. name of the location;
  - 3. geographic co-ordinates of the location in the WGS84 system<sup>2)</sup> (accuracy to 1 second);
  - 4. altitude of the location (accuracy to 10 m);
  - 5. frequencies required;
  - 6. height of the centre of the antenna system above the ground (accuracy to 1 m);
  - 7. radiation pattern of the antenna system;
  - 8. bearing and elevation of the maximum radiation.

#### Article 3

#### **Repealing Provisions**

This is to repeal Measure of the Czech Telecommunication Office No. OÚ – 1/R/2000 of 10 August 2000 for the determination of the extent of the frequency data required to be contained in the applications for permission to operate radio transmission equipment for the individual types of radio communication services, published in Issue 8/2000 of Telekomunikační věstník (Telecommunications Bulletin).

#### Article 4

#### **Effect**

This Measure of General Nature shall come into force on 1 July 2005.

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## **Explanatory Memorandum**

On the basis of Section 130 of the Act, the Office published on 9 May 2005 at its discussion site its draft Measure of General Nature No. OOP/13/XX.2005, laying down the extent of the data required to be contained in the application for individual authorisation for the use of radio frequencies (“the Measure”). The Measure had to be issued as soon as possible in order that applicants for an individual authorisation (“the authorisation”) could learn ahead of time which data they would have to submit to the Office; the period for public discussion was therefore shortened to 15 days.

The Office received 37 comments during the public discussion period. The comments that were delivered to the Office outside the discussion site were also published at the discussion site in accordance with the Czech Telecommunication Office’s Rules for maintaining consultations with the affected parties at the discussion site. In all cases, the Office dealt mainly with the factual essence of the comments and their relevance to the text of the draft Measure and to the purpose of the draft.

Almost all the contributions to the discussion at the discussion site were made by holders of authorisations for the radio amateur service. They demanded that the Office should not require indication of the data on the co-ordinates and altitude of attended amateur stations or club stations, because such data have no practical use and, in addition, the authorisation holders are unable by themselves to identify the co-ordinates and the altitude data with sufficient accuracy. The Office recognised the relevance of those arguments and excluded the requirement for such data from the final version. However, geographical co-ordinates and the altitude data are necessary in the case of fixed unattended stations. Some of the contributions were factually incorrect – many participants in the discussion believed that frequencies are allocated for the radio amateur service by the ITU, WRC or IARU. Of course, the Office could not accept requirements based on such assumptions. Some of the contributions did not relate to the subject of the draft and had no bearing on the text of the regulations implementing the Act.

The Ministry of Informatics raised comments on the justification and transparency of the measures related to the issues of the transmission stations brought to the boards of aircraft and vessels, and also terminological comments. Their comments were discussed on 13 June 2005. A protocol with the results of the settlement of the comments was written and the results were reflected in the comment settlement table.

The Czech Telecommunications Association submitted comments related to specific technical data on the electromagnetic field, the operating areas, channel spacing and others, and they claimed that it is impossible in mobile networks to meet the requirements of the draft concerning those data. Some of their comments related to the notification, under Section 18(5) of the Act, about changes taking place at the base stations – such changes are in fact made more or less continuously in the mobile operators’ environment. However, this comment had no bearing on the wording of the draft Measure. These comments were discussed on 13 June 2005. A protocol with the results of the settlement of the comments was written and the results were reflected in the comment settlement table.

The comment settlement table, made public at the discussion site, contains the texts of all comments and the way they were settled.

Abbreviations generally known to the professional public are used in the Czech text of the Measure. These are: ATIS – Automatic Transmitter Identification System; CDMA – Code Division Multiple Access; EPIRB – Emergency Position-Indicating Radiobeacon; ERP – Effective Radiated Power; FDMA – Frequency Division Multiple Access; FM – Frequency Modulation; HUB – central station; ITU – International Telecommunication Union; MMSI – Maritime Mobile Service Identity; RDS – Radio Data System; TDMA – Time Division Multiple Access; VSAT – Very Small Aperture Terminal; WGS84 – World Geodetic System 1984.

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In accordance with the second sentence of Subsection 2 of Section 124 of the Act and for reasons described in the first paragraph of this Explanatory Memorandum, this Measure will come into effect on 1 July 2005.

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Czech Telecommunication Office  
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[*signature*] *D. Stádník*  
David Stádník  
Chairman of the Council of the  
Czech Telecommunication Office