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**FOCAL POINT REGARDING CORRESPONDENCE
ON THIS QUESTIONNAIRE**

(PARTS I AND II)

1. Mr. **MANTCHEV** **NIKOLA**
Ms Family Name First Name
2. Country **BULGARIA**
3. Name of the **BULGARIA**
Administration/Organization
4. Title **COMMITTEE OF POSTS AND
TELECOMMUNICATIONS**
5. Address **BULGARIA, SOFIA 1000, 6 GOURKO ST.**
6. Tel.: **+359 2 949 2606** Fax: **+359 2 987 9540** E-Mail:
nmanchev@cpt.bg

*To be returned no later than 31 January 2000 to:
ITU-D Study Groups Secretariat
Telecommunication Development Bureau
Fax: +41 22 730 54 84
E-Mail: devsg2@itu.int*

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Section IV – Table of Frequency Allocations (extract from the RR, 1998)

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| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
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| 40.02-40.98 FIXED MOBILE S5.150 | | | 40.66-40.7 MOBILE 30, 32, 67 | |
| 40.98-41.015 FIXED MOBILE Space research S5.160 S5.161 | | | 40.70-48.5 FIXED MOBILE 30, 31, 32, 75 | |
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| | 50-54 AMATEUR S5.166 S5.167 S5.168 S5.170 | | 51.425-54 LAND MOBILE 13, 33 | |
| | 54-68 BROADCASTING Fixed Mobile S5.172 | 54-68 FIXED MOBILE BROADCASTING | 54-58 LAND MOBILE 13, 33 58-66 BROADCASTING (Television) 34 | |
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| S5.149 S5.174 S5.175 S5.177 S5.179 | 73-74.6 RADIO ASTRONOMY S5.178 | S5.149 S5.176 S5.179 | | | |
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| Allocation to services | | | | |
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| 942-960 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 S5.323 | 942-960 FIXED MOBILE | 942-960 FIXED MOBILE BROADCASTING S5.320 | 940.4-945 MOBILE 77 945-1215 LAND MOBILE AERONAUTICAL RADIONAVIGATION 77 | |

Notes:

3. Certain frequencies in these bands can be used for radio-microphones with a power of up to 50 W.
8. Certain frequencies can be used for radionavigational needs by the national defence and security after coordination with the Ministry of Transportation.
11. The frequency bands 457.525-457.775 MHz and 467.525-467.775 MHz can be used by on-board communication stations in territorial waters. The radio equipment shall meet the requirements of Recommendation ITU-R M.1174.
13. The frequency bands 51.425-52 MHz and 54-58 MHz are used for the needs of the national defence and security until expiry of the depreciation term of the Ministry of Defence equipment.
17. Certain frequencies in this band are allocated to the Global Maritime Distress and Safety System (GMDSS) in accordance with Article S31 and Appendix APS15.
28. The frequency band 29.7-33 MHz may also be used for radio links on the principle of ionospheric scattering or meteor-scatter.
29. The frequency bands 5500±50 kHz, 6500±50 kHz, 31.25±0.05 MHz, 33.25±0.05 MHz, 38.1±0.25 MHz and 38.9±0.25 MHz are used for intermediate frequencies in TV sets and any emissions in them are prohibited. The maximum transmitted power in the frequency band 31.25-39.25 MHz is up to 50 W and up to 10 W for civil needs.
30. The frequency band 36-46 MHz may be used by VHF mobile radiostations for civil needs.
31. The frequency band 45.5-46 MHz may be used for radiocontrol for civil needs.
32. In the frequency bands 30.1-33 MHz, 38-44 MHz and 46-48 MHz some frequencies may be used for communication on the principle of ionospheric scattering or or meteor-scatter. The frequency band 37.75-38.25 MHz may be also used for the needs of radioastronomy. The frequencies 36.3 MHz, 36.5 MHz, 36.7 MHz, 36.9 MHz and 37.1 MHz are used for wireless radio microphones with a power of up to 25 mW by priority.
33. This frequency band is allocated by priority for radiostations with power up to 10 W.
34. The frequency band 60-66 MHz is used for the needs of national defence and security until expiry of the depreciation term of the equipment under the condition that this shall not cause harmful interference to TV reception.
35. The frequency band 66-70 MHz is used for the needs of national defence and security until expiry of the depreciation term of the equipment under the condition that this shall not cause harmful interference to VHF-FM.
36. This frequency band (carrier 75 MHz) is used for marker beacons with continuous transmission in aeronautical landing systems.
37. The frequency bands 73-74.8 MHz and 75.2-76 MHz may also be used by the fixed and the mobile services, subject not to cause interference to the aeronautical radionavigation.
38. The frequency band 79.75-80.25 MHz may also be used for the needs of radio astronomy on a secondary basis.
39. The frequency 82 MHz may also be used for radio sounding on a secondary basis.
40. The frequency band 100-108 MHz is allocated to VHF-FM broadcasting. The frequency allocation for broadcasting is coordinated with respect to EMC with the aeronautical radionavigation systems.

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41. The frequency 121.5 MHz is used by the aeronautical mobile service for distress and safety and for emergency radiobeacons.
42. The band is allocated to the space operation service (space-to-Earth), meteorological-satellite service (space-to-Earth) and to the space research service (space-to-Earth) on a secondary basis.
43. The aeronautical mobile radio equipment /OR/ shall not cause interference to the space research earth stations.
44. In this frequency band the civil radiostations are with power up to 10 W.
45. In this frequency band the aeronautical and land aeronautical service radio equipment shall not cause interference to the satellite radionavigation service.
46. The frequency 156.8 MHz \pm 75 kHz is an international frequency for distress and calling in the maritime mobile service.
47. In the Black sea area and the Danube area the frequency bands 156.025-157.425 MHz, 160.625-160.975 MHz and 161.475-162.025 MHz are used by the maritime mobile service in accordance with Appendix S18. Their use by other services shall be coordinated with the Ministry of Transportation.
48. The frequency band 183.1-184.1 MHz may be used for the needs of the space research service on a secondary basis.
49. The frequency band 300-308 MHz is allocated to the land mobile service until 2003.
50. The frequency 243 MHz is used by the aeronautical mobile service for distress and safety and for position-indicating emergency radiobeacons.
51. The allocation of this frequency band for civil needs shall be effective until 2003.
52. The frequency band 401-406 MHz may be used for the needs of the space research service.
53. The frequency band 430-440 MHz is used by the radio amateur service on a primary basis.
54. The frequency bands 638-646 MHz, 694-702 MHz are allocated to television broadcasting.
61. The frequency bands 411-414 MHz and 421-424 MHz may be used for the needs of the civil digital radio system TETRA.
63. The frequencies 50.100 MHz, 50.125 MHz and 50.150 MHz may be used for the needs of the radio amateur service with power up to 5 W on a secondary basis.
66. Честотната лента 153-174 MHz не може да бъде използвана в кабелните разпределителни системи. The frequency band 153-174 MHz shall not be used in the cable distribution systems.
67. The frequency bands 26.957-27.283 MHz, 40.660-40.700 MHz, 433.050-434.790 MHz, 2400-2483.5 MHz, 5725-5875 MHz, 24-24.25 GHz, 120.06-126 GHz, and 241-248 GHz are designated for industrial, scientific and medical (ISM) applications.
68. The frequency 161.900 MHz is used for a radio data transmission system for civil needs in the region of Sofia.
69. The bands 452.500-457.400 MHz and 462.500-467.400 MHz are used by the cellular system NMT 450-i., except 8 duplex channels, currently used by the Ministry of defence for a radiotelephone system.

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70. The following bands may be used for television broadcasting: 470-478 MHz , 494-502 MHz, 510-590 MHz, 614-646 MHz, 686-726 MHz, 758-766 MHz and 814-822 MHz. The use of the band 726-734 MHz is subject to coordination. Its use is limited only to the following objects:

502-510 MHz - Oreliak, Smolian

590-598 MHz - Sofia

742-750 MHz - Smolian (Petrovica).

The band 646-686 MHz shall be used after 2000.

The band 766-814 MHz shall be used after 2008.

71. The frequency bands 300-301.100 MHz and 336-337.100 MHz shall also be used for simplex networks until 2003. The frequency bands 306-308 MHz and 342-344 MHz shall be used for duplex networks until 2003. The frequency band 308-310 MHz shall be used for low-power stations up to 5 W until 2003.

72. The frequency band 406-406.1 MHz is used by radiobeacons for distress by the mobile satellite service.

73. The following bands may be used by the amateur service: 1810-1850 kHz, 3500-3800 kHz, 18068-18168 kHz, 24890-24990 kHz, 144-146 MHz (some frequencies may be used by the amateur satellite service), 430-440 MHz (without causing harmful interference to the mobile and fixed services), 5650-5850 MHz, 10000-10025 MHz - amateur service and amateur satellite service and 10025-10500 MHz - amateur service.

74. Some frequencies in the band 156.026-162.025 MHz are used for civil needs. The frequency band 162.225-162.850 MHz is allocated provisionally to the Ministry of health for a system for urgent medical aid until the National digital system is developed in accordance with the European standards.

75. The frequency bands 46.000-46.200 MHz and 46.600-47.000 MHz, 49.000-49.200 and 49.600-50.000 MHz may be used for wireless phones with power up to 100 mw or coverage area of up to 100 m.

77. The basic frequency bands for GSM operators are 890.2-894.8 MHz + 935.2-939.8 MHz and 895.4-900 MHz + 940.4-945 MHz.

Additional frequency bands are used as follows:

For the area of Sofia:

a) for a first operator:

From 905.6 MHz to 907.8 MHz and from 950.6 MHz to 952.8 MHz

b) for a second operator:

From 908.0 to 910.2 MHz and from 953.0 to 955.2 MHz

For the area of Plovdiv:

a) for a first operator

From 903.0 to 903.8 MHz and from 948.0 to 948.8 MHz

b) for a second operator

From 904.0 to 904.8 MHz and from 949.0 to 949.8 MHz

For the area of Bourgas:

a) for a first operator

От 900.6 до 901.4 MHz и от 945.6 до 946.4 MHz

b) for a second operator:

От 901.6 до 902.4 MHz и от 946.6 до 947.4 MHz

Bulgaria

For the area of Varna:

a) for a first operator

From 910.4 to 911.2 MHz and from 955.4 to 956.2 MHz

b) for a second operator:

From 911.4 to 912.2 MHz and from 956.4 to 957.2 MHz

For the area of Rousse:

a) for a first operator

From 912.6 to 913.6 and from 957.6 to 958.6 MHz

b) for a second operator:

From 913.8 to 914.8 MHz and from 958.8 to 959.8 MHz.

Some frequencies are also used by departmental police and by the Ministry of Defence.

84. The frequency band 400.15-406 MHz is used by the meteorological service (aerologic atmospheric probes).

QUESTIONNAIRE – PART II

(To be completed by Administrations only)

Describe succinctly the problems that your administration is currently experiencing in national spectrum management (for example subject areas in national spectrum management)

Country **BULGARIA**

Focal point **Mr. Nikola Mantchev, Committee of Posts and Telecommunications, Sofia 1000, 6 Gourko St., Bulgaria**

The following general questions on national spectrum management are based in part on the functional requirements of spectrum management described in the handbook on “National Spectrum Management”. If you need additional space to answer the questions please continue on a separate sheet of paper

1. Do you have a national law governing spectrum management? YES NO

– Last date this law was changed or modified? **August 1998**

– Are any actions planned to change this law? YES NO

2. Have you published regulations and procedures for national spectrum management (e.g. radio services, license requirements etc.)? YES NO

3. Do you have a national radio frequency spectrum allocation table? YES NO

4. Do you have technical specifications for national spectrum use? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

See Item 3

5. Do you have a need for any spectrum redeployment*? YES NO

* The term “redeployment” is used here to refer to a process of national scope in which an assessment is conducted

- 1) to determine if portions of spectrum can be identified that are in limited use; and
- 2) to determine if such spectrum segments can be reallocated for use in delivering radiocommunication services that have expanding spectrum requirements.

– If so, do you have a strategy for achieving this redeployment in respective frequency bands and for given radiocommunication services? YES NO

- Please define the established strategy and describe the nature of the consultation, if any, with users regarding the potential costs resulting from the planned redeployment.

This strategy is contained in the document "Telecommunication Sector Policy" prepared by the Committee of Posts and Telecommunications. Funding is necessary to change radio equipment in the Bulgarian Army in line with NATO standards.

6. What is the total cost of national spectrum management functions performed by your Government (expressed in Swiss francs)?

No data

- What is the source of the funding required to accomplish these spectrum management functions?

Licence fees for utilisation of frequency resource and state budgeting

7. Do you have a method for establishing spectrum users' fees?

YES NO

Decree No.31, 1999, of the Council of Ministers (published in State Gazette, issue 16, 1999)

- If so, please give a brief description of the method used in establishing those fees.

Based on type of service, frequency bandwidth, carrier frequency, effective antenna height, effective transmission power, coverage in terms of population

8. Do you maintain centralized databases for spectrum management?

YES NO

- What is the approximate size of your database (expressed in number of records)?

Not available at present

- Do you have a computerized data base management system (DBMS)?

YES NO

- What DBMS system do you use?

SPECTRAPlus, L&S, Lichtenau, Germany

- Are these frequency assignment records available to public?

YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

Shortage of hardware and software, training of personnel.

9. Do you notify frequency assignments to the ITU?

YES NO

10. Do you have a policy and planning function for national spectrum management (i.e. a national strategy for future use of the spectrum)? YES NO
- Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

See Item 6.

11. Do you perform technical analyses of frequency assignment requests? YES NO
- Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

See Item 8.

12. Do you perform radio monitoring? YES NO
- number of fixed monitoring stations 3
 - facilities available at fixed monitoring stations
 - monitoring up to **1300** MHz
 - direction finding up to **1300** MHz
 - number of mobile monitoring stations 1
 - facilities available at mobile monitoring stations
 - monitoring up to **2700** MHz
 - direction finding up to **1300** MHz

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

Necessity of additional training of personnel, methodologies, equipment

13. Do you perform technical analyses of radio frequency interference complaints? YES NO
- established consultation process, involving Government and non-government organization, for resolving these complaints? YES NO

14. What computers and operating systems are in use for national spectrum management?
- Type of computers PCs
- Operating system(s) NT, Windows

15. Number of technical/professional staff in national spectrum management? Approx. 20

16. Number of support staff in national spectrum management? 22

17. Describe your country's spectrum management structure (Please enclose a copy of organization chart).

The Telecommunications Act specifies the National Radio Frequency Spectrum Council as the state body for spectrum management, together with departments that are part of the organization structures of the Committee of Posts and Telecommunications and the State Telecommunications Commission, as illustrated in WEB-sites www.cpt.bg and www.online.bg/dkd/.

18. Do you use the ITU-R Handbooks and Reports on:
- a) National Spectrum Management, version 1995? **YES**
 - b) Spectrum Monitoring¹, version 1995? **YES**
 - c) Computer-aided Techniques for Spectrum Management, version 1999?
 - d) HF Broadcasting System Design, version 1999?
 - e) Report SM.2012, Economic Aspects of Spectrum Management, version 1997²? **YES**
 - f) Windows Basic Automated Spectrum Management System (WinBASMS) Software Version 1997, Manual Version 1997

What additional information/handbooks do you need from the ITU?

c), d), f)

To be returned no later than 31 January 2000 to:

ITU-D Study Groups Secretariat

Telecommunication Development Bureau

Fax: +41 22 730 54 84

E-Mail: devsg1@itu.int

THANK YOU FOR YOUR COOPERATION

¹ The Spectrum Monitoring Handbook is currently being updated, therefore, you are urged to contact Mr Jan Verduijn (NL), the designated Rapporteur from ITU-R Study Group 1, Working Party 1C if you have any comments that you wish included in a future version of this Handbook.

² This Report SM.2012 was updated during the ITU-R Study Group 1 meeting in August 1999. This new version is expected to be available in the three working languages by January 2000.

**FOCAL POINT REGARDING CORRESPONDENCE
ON THIS QUESTIONNAIRE**

(PARTS I AND II)

1. Mr. **GRIGOROV** **GRIGOR**
Ms Family Name First Name
2. Country **BULGARIA**
3. Name of the **STATE TELECOMMUNICATIONS COMMISSION**
Administration/Organization
4. Title **DIRECTOR OF FREQUENCY
MANAGEMENT_DIRECTORATE**
5. Address **BULGARIA, SOFIA 1000, 6 GOURKO ST.**
6. Tel.: **+359 2 949 2327** Fax: **+359 2 9492198** E-Mail:
spectrum@acpt.bg

*To be returned no later than 31 January 2000 to:
ITU-D Study Groups Secretariat
Telecommunication Development Bureau
Fax: +41 22 730 54 84
E-Mail: devsg2@itu.int*

Bulgaria

Section IV – Table of Frequency Allocations (extract from the RR, 1998)

| Read only | | | To be completed | |
|---|----------|----------|--|-------------------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 27.5-47 MHz | | | | |
| 27.5-28 METEOROLOGICAL AIDS FIXED MOBILE | | | FIXED MOBILE | |
| 28-29.7 AMATEUR AMATEUR-SATELLITE | | | AMATEUR AMATEUR-SATELLITE | |
| 29.7-30.005 FIXED MOBILE | | | FIXED MOBILE | Remark 28 |
| 30.005-30.01 SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH | | | FIXED MOBILE SPACE OPERATION <i>/identification/</i> SPACE RESEARCH | Remark 28 |
| 30.01-37.5 FIXED | | | FIXED; MOBILE 30,01-31,25 | Remark 28,29 and 32 |
| | | | MOBILE 31,25-37,5 | Remark 28,29,30 and 32 |
| | | | | |

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| Read only | | | To be completed | |
|------------------------|--|----------|---|-------------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 37.5-38.25 | FIXED MOBILE Radio astronomy S5.149 | | MOBILE /EXCEPT aeronautical mobile/ radioastronomy | Remark 29,30 and 32 |
| 38.25-39.986 | FIXED MOBILE | | MOBILE 38,25-39,25 | Remark 29,30 and 32 |
| 39.986-40.02 | FIXED MOBILE Space research | | FIXED MOBILE 39,25-40,66 | Remark 30 and 32 |
| 40.02-40.98 | FIXED MOBILE S5.150 | | MOBILE 40,66-40,7 | Remark 30, 32 and 67 |
| 40.98-41.015 | FIXED MOBILE Space research S5.160 S5.161 | | FIXED MOBILE 40,7-51,425 | Remark 30, 31,32 and 75 |
| 41.015-44 | FIXED MOBILE S5.160 S5.161 | | | |
| 44-47 | FIXED MOBILE S5.162 S5.162A | | | |

47-75.2 MHz

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| Read only | | | | To be completed | | |
|--|--|------------------------------|--|-----------------|---------------------|---------|
| Allocation to services | | | | | | |
| Region 1 | | Region 2 | | Region 3 | National Allocation | Remarks |
| S5.149 S5.174 S5.175 S5.177 S5.179 | | 74.6-74.8 FIXED MOBILE | | | | |
| | | | | | | |
| 74.8-75.2 AERONAUTICAL RADIONAVIGATION S5.180 S5.181 | | | | | | |

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| Read only | | | To be completed | |
|---|--|-----------------------------------|---------------------------------|-------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 75.2-137.175 MHz | | | | |
| 75.2-87.5 FIXED MOBILE except aeronautical mobile S5.175 S5.179 S5.184 S5.187 | 75.2-75.4 FIXED MOBILE S5.179 | | BROADCASTING 76-100 | Remarks 38 and 39 |
| | 75.4-76 FIXED MOBILE | 75.4-87 FIXED MOBILE | | |
| | 76-88 BROADCASTING Fixed Mobile | S5.149 S5.182 S5.183 S5.188 | | |
| | 87-100 FIXED MOBILE BROADCASTING | S5.185 | | |
| 87.5-100 BROADCASTING S5.190 | 88-100 BROADCASTING | | | |
| 100-108 BROADCASTING S5.192 S5.194 | | | BROADCASTING stereo | Remarks 40 |
| 108-117.975 AERONAUTICAL RADIONAVIGATION S5.197 | | | AERONAUTICAL RADIONAVIGATION | Remarks 8 |

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| Read only | | | | | | | | To be completed | |
|---|----------|-------------------|--------|----------|--------|--------|---------|---|-------------------------|
| Allocation to services | | | | | | | | | |
| Region 1 | Region 2 | | | Region 3 | | | | National Allocation | Remarks |
| 117.975-137 AERONAUTICAL MOBILE (R) | | | | | | | | AERONAUTICAL MOBILE (R) 117,975-136 | Remarks 8 and 41 |
| S5.111 | S5.198 | S5.199 S5.203B | S5.200 | S5.201 | S5.202 | S5.203 | S5.203A | | |
| | | | | | | | | AERONAUTICAL MOBILE (R) Fixed 136-137 | Remarks 8 and 42 |
| 137-137.025 SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.208A S5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208 | | | | | | | | AERONAUTICAL MOBILE (OR SPACE RESEARCH (TELEMEASUREMENT and control) 137-138 | |
| | | | | | | | | | |

Bulgaria

| Read only | | | To be completed | |
|---|----------|----------|---|---------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 137.025-137.175 SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-satellite (space-to-Earth) S5.208A S5.209 Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208 | | | | |
| 137.175-148 MHz | | | | |
| 137.175-137.825 SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.208A S5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208 | | | METEOROLOGICAL SATELLITE SPACE RESEARCH (SPACE-to-EARTH) 137-138 | |
| 137.825-138 SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-satellite (space-to-Earth) S5.208A S5.209 Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208 | | | | |

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| Read only | | | To be completed | |
|---|---|---|---|------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 138-143.6 AERONAUTICAL MOBILE (OR) S5.210 S5.211 S5.212 S5.214 | 138-143.6 FIXED MOBILE RADIOLOCATION Space research (space-to-Earth) | 138-143.6 FIXED MOBILE Space research (space-to-Earth) S5.207 S5.213 | AERONAUTICAL MOBILE (OR) | |
| 143.6-143.65 AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to-Earth) S5.211 S5.212 S5.214 | 143.6-143.65 FIXED MOBILE RADIOLOCATION SPACE RESEARCH (space-to-Earth) | 143.6-143.65 FIXED MOBILE SPACE RESEARCH (space-to-Earth) S5.207 S5.213 | AERONAUTICAL MOBILE (OR) SPACE RESEARCH (SPACE-to-EARTH) | Remark 43 |
| 143.65-144 AERONAUTICAL MOBILE (OR) S5.210 S5.211 S5.212 S5.214 | 143.65-144 FIXED MOBILE RADIOLOCATION Space research (space-to-Earth) | 143.65-144 FIXED MOBILE Space research (space-to-Earth) S5.207 S5.213 | AERONAUTICAL MOBILE (OR) | |
| 144-146 AMATEUR S5.120 AMATEUR-SATELLITE S5.216 | | | AMATEUR AMATEUR-SATELLITE | |
| 146-148 FIXED MOBILE except aeronautical mobile (R) | 146-148 AMATEUR | 146-148 AMATEUR FIXED MOBILE | AERONAUTICAL MOBILE (OR) | |

Bulgaria

| Read only | | | To be completed | |
|--|---|----------|--|-------------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| | S5.217 | S5.217 | | |
| 148-149.9 FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) S5.209 S5.218 S5.219 S5.221 | 148-149.9 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.209 S5.218 S5.219 S5.221 | | L. MOBILE FIXED 148-148,025 | |
| | | | MOBILE-SATELLITE /Earth space/ MOBILE 148,025-148,925 | Remark 80 |
| | | | L. MOBILE FIXED 148,925-149,9 | |
| 149.9-150.05 MOBILE-SATELLITE (Earth-to-space) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.224B S5.220 S5.222 S5.223 | | | AERONAUTICAL MOBILE L. MOBILE RADIONAVIGATION-SATELLITE 149,9-150 | Remark 44 and 45 |
| | | | RADIONAVIGATION-SATELLITE (EARTH-TO-SPACE) MOBILE- SATELLITE MOBILE 150-150,05 | Remark 44 and 45 |

Bulgaria

| Read only | | | To be completed | |
|--|---|----------|--|------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 150.05-153 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149 | 150.05-156.7625 FIXED MOBILE | | MOBILE except aeronautical mobile RADIO ASTRONOMY | Remark 80 |
| 153-154 FIXED MOBILE except aeronautical mobile (R) Meteorological Aids | | | MOBILE except Aeronautical mobile 153-153,425 | Remark 66 |
| | | | LAND MOBILE 153,425-156,025 | Remark 66 |

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| Read only | | | To be completed | |
|---|----------------------|----------|---|---------------------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 154-156.7625 FIXED MOBILE except aeronautical mobile (R) S5.226 S5.227 | S5.225 S5.226 S5.227 | | MOBILE EXCEPT AERONAUTICAL MOBILE 156,025-156,5125 | Remarks 17,47, and 66 |
| | | | MARITIME MOBILE 156,5125-156,5375 | Remarks 17,47, and 66 |
| | | | MOBILE EXCEPT AERONAUTICAL MOBILE 156,5375-156,7625 | Remarks 17,46,47, and 66 |
| 156.7625-156.8375 MARITIME MOBILE (distress and calling) S5.111 S5.226 | | | MARITIME MOBILE | Remarks 17,46,47, and 66 |

Bulgaria

| Read only | | | To be completed | |
|---|---|----------|--|-----------------------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 156.8375-174 FIXED MOBILE except aeronautical mobile S5.226 S5.229 | 156.8375-174 FIXED MOBILE S5.226 S5.230 S 5 231 S 5.232 | | MOBILE EXCEPT AERONAUTICAL MOBILE 156,8375-157,425 | Remarks 46,47,and 66and 80 |
| | | | LAND MOBILE 157,425-160,625 | Remarks 66 and 74 |
| | | | MOBILE EXCEPT AERONAUTICAL MOBILE 160,625-160,95 | Remarks 47 and 66 |
| | | | MOBILE EXCEPT AERONAUTICAL MOBILE 160,95-161,475 | Remarks 47, 66 and 74 |

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| Read only | | | To be completed | |
|--------------------------------|--|---|---|---|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| | | | MOBILE EXCEPT AERONAUTICAL MOBILE 161,475-162,075 | Remarks 46,47, 66,68,74 and 80 |
| | | | LAND MOBILE 162,075-174 | Remarks 66 and 74 |
| 174-223 BROADCASTING | 174-216 BROADCASTING Fixed Mobile S5.234 | 174-223 FIXED MOBILE BROADCASTING | BROADCASTING (TV) 174-216 | Remarks 3 and 48 |
| | 216-220 FIXED MARITIME MOBILE Radiolocation S5.241 S5.242 | | | |
| S5.235 S5.237 S5.243 | | S5.233 S5.238 S5.240 S5.245 | | |

Bulgaria

| Read only | | | To be completed | |
|---|--|---|-------------------------------------|------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 220-335.4 MHz | | | | |
| 223-230 BROADCASTING Fixed Mobile S5.243 S5.246 S5.247 | 220-225 AMATEUR FIXED MOBILE Radiolocation S5.241 | 223-230 FIXED MOBILE BROADCASTING AERONAUTICAL RADIONAVIGATION Radiolocation S5.250 | BROADCASTING (TV) 216-230 | |
| | 225-235 FIXED MOBILE | | | |
| 230-235 FIXED MOBILE S5.247 S5.251 S5.252 | | 230-235 FIXED MOBILE AERONAUTICAL RADIONAVIGATION S5.250 | FIXED MOBILE 230-300 | |
| 235-267 FIXED MOBILE S5.111 S5.199 S5.252 S5.254 S5.256 | | | | Remark 50 |

Bulgaria

| Read only | | | To be completed | |
|------------------------|--|---|---------------------|-------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 267-272 | FIXED MOBILE Space operation (space-to-Earth) S5.254 S5.257 | | | |
| 272-273 | SPACE OPERATION (space-to-Earth) FIXED MOBILE S5.254 | | | |
| 273-312 | FIXED MOBILE S5.254 | 300-301.1 301.1-306 306-306,225 | MOBILE | Remarks 49 and 71 |
| | | 306,225-306,525 306,525-308,0 308-310 | MOBILE | Remark 49 |
| | | | MOBILE | Remarks 49 and 71 |
| | | | FIXED MOBILE | Remarks 49 and 71 |
| | | | MOBILE | Remarks 49 and 71 |
| | | | MOBILE | Remark 71 |
| 312-315 | FIXED MOBILE Mobile-satellite (Earth-to-space) S5.254 S5.255 | | MOBILE 308-310 | Remark 71 |
| 315-322 | FIXED MOBILE S5.254 | | | |

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| Read only | | | To be completed | |
|------------------------|---|----------|--|----------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 322-328.6 | FIXED MOBILE RADIO ASTRONOMY S5.149 | | FIXED MOBILE 310-328,6 | |
| 328.6-335.4 | AERONAUTICAL RADIONAVIGATION S5.258 S5.259 | | AERONAUTICAL RADIONAVIGATION 328,6-336 | Remark 8 |

335.4-410 MHz

| | | | | | |
|-----------|--|---------------------------------------|--------------------------------|---------------|-------------------|
| 335.4-387 | FIXED MOBILE S5.254 | 336-337,1 337,1-342 342-342,225 | 342,225-342,525 342,525-344 | MOBILE | Remarks 51 and 71 |
| | | | | FIXED; MOBILE | Remark 51 |
| | | | | MOBILE | Remarks 51 and 71 |
| | | | | FIXED; MOBILE | Remarks 51 and 71 |
| 387-390 | FIXED MOBILE Mobile-satellite (space-to-Earth) S5.208A S5.254 S5.255 | | | | |
| 390-399.9 | FIXED MOBILE S5.254 | | | | |

Bulgaria

| Read only | | | To be completed | |
|---|----------|----------|--|--------------------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 399.9-400.05 MOBILE-SATELLITE (Earth-to-space) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.222 S5.224B S5.260 S5.220 | | | MOBILE 344-411 MOBILE 344-411 | Remarks 17,52,72,and 84 |
| 400.05-400.15 STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) S5.261 S5.262 | | | | |
| 400.15-401 METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.208A S5.209 SPACE RESEARCH (space-to-Earth) S5.263 Space operation (space-to-Earth) S5.262 S5.264 | | | | |
| 401-402 METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile | | | | |

Bulgaria

| Read only | | | To be completed | |
|---|----------|----------|---------------------|---------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 402-403 METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile | | | | |
| 403-406 METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile | | | | |
| 406-406.1 MOBILE-SATELLITE (Earth-to-space) S5.266 S5.267 | | | | |
| 406.1-410 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149 | | | | |

410-470 MHz

| | | | | |
|---|---------|---------|--|------------------|
| 410-420 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) S5.268 | 411-414 | 414-420 | MOBILE EXCEPT AERONAUTICAL MOBILE | Remark 61 |
| | | | FIXED; MOBILE | Remark 17 |

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| Read only | | | To be completed | |
|--|--|----------|--|------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 420-430 FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271 | | 420-421 | FIXED; MOBILE except AERONAUTICAL MOBILE | |
| | | 421-424 | | |
| | | 424-430 | | |
| | | | MOBILE except AERONAUTICAL MOBILE, RADIOLOCATION | Remark 61 |
| | | | FIXED ;MOBILE except AERONAUTICAL MOBILE | |
| 430-440 AMATEUR RADIOLOCATION | 430-440 RADIOLOCATION 433,05 Amateur 434,79 | 430- | AMATEUR RADIOLOCATION | |
| | | 433,05- | | |
| | | | AMATEUR RADIOLOCATION L. MOBILE | Remark 67 |

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| Read only | | | | | To be completed | | | | | | |
|---|--|--|--|--|--|--|--|--|--|---|-------------------|
| Allocation to services | | | | | | | | | | | |
| Region 1 | | Region 2 | | | Region 3 | | | | | National Allocation | Remarks |
| S5.138 S5.271 S5.272 S5.273 S5.274 S5.275 S5.276 S5.277 S5.280 S5.281 S5.282 S5.283 | | 438 | | | 434,79- S5.271 S5.276 S5.277 S5.278 S5.279 S5.281 S5.282 438-440 | | | | | AMATEUR; AMATEUR- SATELLITE, RADIOLOCATION | |
| | | | | | | | | | | AMATEUR RADIOLOCATION | |
| 440-450 FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271 S5.284 S5.285 S5.286 | | 440-459 | | | | | | | | L. MOBILE FIXED MOBILE | Remarks 11 and 69 |
| 450-455 FIXED MOBILE S5.209 S5.271 S5.286 S5.286A S5.286B S5.286C S5.286D S5.286E | | | | | | | | | | | |
| 455-456 FIXED MOBILE S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E | | 455-456 FIXED S5.209 S5.271 | | | MOBILE MOBILE-SATELLITE (Earth-to-space) S5.286A S5.286B S5.286C | | | | | 455-456 FIXED S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E | MOBILE |
| 456-459 FIXED MOBILE | | | | | | | | | | S5.271 S5.287 S5.288 | |

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| Read only | | | | | To be completed | |
|--|--|---|--|---|---|--------------------------|
| Allocation to services | | | | | | |
| Region 1 | | Region 2 | | Region 3 | National Allocation | Remarks |
| 459-460 FIXED MOBILE S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E | | 459-460 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.286A S5.286B S5.286C S5.209 S5.271 | | 459-460 FIXED MOBILE S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E | MOBILE | |
| 460-470 FIXED MOBILE Meteorological-Satellite (space-to-Earth) S5.287 S5.288 S5.289 S5.290 | | 460-469 469-470 | | | METEOROLOGICAL-SATELLITE /Space-to-Earth/,space research earth; FIXED; MOBILE | Remarks 11 and 69 |
| | | | | | MOBILE | |

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| Read only | | | | To be completed | |
|--|---|---|--|------------------|--|
| Allocation to services | | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks | |
| 470-890 MHz | | | | | |
| 470-790 BROADCASTING S5.149 S5.291A S5.294 S5.296 S5.300 S5.302 S5.304 S5.306 S5.311 S5.312 | 470-512 BROADCASTING Fixed Mobile S5.292 S5.293 | 470-585 FIXED MOBILE BROADCASTING S5.291 S5.298 | BROADCASTING (TV) MOBILE 470-478 | Remarks 3 and 70 | |
| | 512-608 BROADCASTING S5.297 | 585-610 FIXED MOBILE BROADCASTING RADIO- NAVIGATION S5.149 S5.305 S5.306 S5.307 | | | |
| | 608-614 RADIO ASTRONOMY Mobile-satellite except aeronautical mobile-satellite (Earth-to-space) | 614-806 BROADCASTING Fixed Mobile S5.293 S5.309 S5.311 | | | |
| | 614-806 BROADCASTING Fixed Mobile S5.293 S5.309 S5.311 | 610-890 FIXED MOBILE | | | |
| 790-862 FIXED BROADCASTING S5.312 S5.314 S5.315 S5.316 S5.319 S5.321 | 806-890 FIXED MOBILE BROADCASTING | BROADCASTING | | | |

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| Read only | | | To be completed | |
|------------------------|----------|----------|--|---------------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| | | | AERONAUTICAL RADIO-NAVIGATION; BROADCASTING (TV) 478-494 | Remark 3 |
| | | | BROADCASTING (TV) MOBILE 494-502 | Remarks 3 and 70 |
| | | | AERONAUTICAL RADIO-NAVIGATION; BROADCASTING (TV) 502-510 | Remarks 3 and 70 |
| | | | BROADCASTING (TV) MOBILE 510-590 | Remarks 3 and 70 |
| | | | AERONAUTICAL RADIO-NAVIGATION; BROADCASTING (TV) 590-614 | Remarks 3 and 70 |
| | | | BROADCASTING (TV) MOBILE 614-646 | Remarks 3,54 and 70 |
| | | | AERONAUTICAL RADIO-NAVIGATION; BROADCASTING (TV) 646-686 | Remarks 3 and 70 |
| | | | BROADCASTING (TV) MOBILE 686-726 | Remarks 3,54 and 70 |

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| Read only | | | | To be completed | |
|---|---------------|--|--|------------------|--|
| Allocation to services | | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks | |
| | | | AERONAUTICAL RADIO-NAVIGATION; TELEVISION 726-758 | Remarks 3 and 70 | |
| | | | BROADCASTING (TV) MOBILE 758-766 | Remarks 3 and 70 | |
| | | | AERONAUTICAL RADIO-NAVIGATION; BROADCASTING (TV) 766-814 | Remarks 3 and 70 | |
| | | | BROADCASTING (TV) MOBILE 814-822 | Remarks 3 and 70 | |
| 862-890 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 | | | L. MOBILE AERONAUTICAL RADIO-NAVIGATION 822-890,2 | | |
| S5.319 S5.323 | S5.317 S5.318 | S5.149 S5.305 S5.306 S5.307 S5.311 S5.320 | | | |

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| Read only | | | To be completed | |
|--|--|--|--|-----------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| 890-1 350 MHz | | | | |
| 890-942 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 Radiolocation | 890-902 FIXED MOBILE except aeronautical mobile Radiolocation S5.318 S5.325 | 890-942 FIXED MOBILE BROADCASTING Radiolocation | MOBILE RADIOLOCATION 890,2-890,8 | Remark 77 |
| | | | L. MOBILE AERONAUTICAL RADIONAVIGATION 890,8-895,4 | Remark 77 |
| | 902-928 FIXED Amateur Mobile except aeronautical mobile Radiolocation S5.150 S5.325 S5.326 | | MOBILE RADIOLOCATION 895,4-900 | Remark 77 |
| | | | L. MOBILE AERONAUTICAL RADIONAVIGATION 900-935,2 | Remark 77 |

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| Read only | | | To be completed | |
|---|---|---|--|-----------------|
| Allocation to services | | | | |
| Region 1 | Region 2 | Region 3 | National Allocation | Remarks |
| | 928-942 FIXED MOBILE except aeronautical mobile Radiolocation | | MOBILE RADIOLOCATION 935,2-939,8 L. MOBILE AERONAUTICAL RADIONAVIGATION 939,9-940,4 | Remark 77 |
| S5.323 | S5.325 | S5.327 | | |
| 942-960 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 | 942-960 FIXED MOBILE | 942-960 FIXED MOBILE BROADCASTING | MOBILE 940,4-945 | Remark 77 |
| S5.323 | | S5.320 | L. MOBILE AERONAUTICAL RADIONAVIGATION 945-1215 | Remark 8 and 77 |

QUESTIONNAIRE – PART II

(To be completed by Administrations only)

Describe succinctly the problems that your administration is currently experiencing in national spectrum management (for example subject areas in national spectrum management)

Country **BULGARIA**

Focal point **NATIONAL SPECTRUM MANAGEMENT**

The following general questions on national spectrum management are based in part on the functional requirements of spectrum management described in the handbook on “National Spectrum Management”. If you need additional space to answer the questions please continue on a separate sheet of paper

1. Do you have a national law governing spectrum management? YES NO
- Last date this law was changed or modified? **06.08.98**
- Are any actions planned to change this law? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

Planning of radio frequency spectrum

2. Have you published regulations and procedures for national spectrum management (e.g. radio services, license requirements etc.)? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

We have some problems regarding the radio and TV broadcast licensing, we would like to have more information about the practices and procedures in the other countries.

3. Do you have a national radio frequency spectrum allocation table? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

We have some problems in the frequency range 29 MHz-10GHz. In this range the table isn't harmonized with CEPT.

4. Do you have technical specifications for national spectrum use? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

We have a big problem with the transition from OIRT standard to CCR and with the replanning for the harmonization with CEPT requirements

5. Do you have a need for any spectrum redeployment*? YES NO

* The term “redemption” is used here to refer to a process of national scope in which an assessment is conducted

- 1) to determine if portions of spectrum can be identified that are in limited use; and
- 2) to determine if such spectrum segments can be reallocated for use in delivering radiocommunication services that have expanding spectrum requirements.

– If so, do you have a strategy for achieving this redeployment in respective frequency bands and for given radiocommunication services? YES NO

– Please define the established strategy and describe the nature of the consultation, if any, with users regarding the potential costs resulting from the planned redeployment.

The established strategy is the following:

1. The main problems are as follows:

Regarding the forthcoming accession of Bulgaria in NATO it is necessary to reallocate some frequency bands and put them in accordance with NATO’s standards. An economic problem will appear due to replacing the military facilities which are still working according to the Council of Economic Assistance

The suspension of rmer TV repeaters which are operating in the range of 1-5 channels according to OIRT/up to 100 MHz/

Releasing the range /66-73 MHz/ of the broadcasting for the aims of the mobile connections.

2. Replanning the TV network in the North East of Bulgaria with the purpose of removing the 5th channel OIRT (92-100 MHz). It will be necessary for releasing frequency resource in order to develop the broadcasting

6. What is the total cost of national spectrum management functions performed by your Government (expressed in Swiss francs)?

The Government is not in position to subsidize the STC

- What is the source of the funding required to accomplish these spectrum management functions?

5 975 000 CHF from license fees and fees for frequency spectrum resource

7. Do you have a method for establishing spectrum users' fees? YES NO
– If so, please give a brief description of the method used in establishing those fees.

The level of the fees depends on maximal effective radiated power and maximal effective antenna height

8. Do you maintain centralized databases for spectrum management? YES NO
– What is the approximate size of your database (expressed in number of records)? **12 500**
– Do you have a computerized data base management system (DBMS)? YES NO
– What DBMS system do you use? **ORACLE**
– Are these frequency assignment records available to public? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

We need assistance with automated coordination for broadcasting , fixed, mobile and satellite services

9. Do you notify frequency assignments to the ITU? YES NO
Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

We need some assistance with delivery of software for automated notification of the frequency assignment

10. Do you have a policy and planning function for national spectrum management (i.e. a national strategy for future use of the spectrum)? YES NO
Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

We need assistance with policy and planning

11. Do you perform technical analyses of frequency assignment requests? NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

We need assistance

12. Do you perform radio monitoring? YES NO
- number of fixed monitoring stations 2
 - facilities available at fixed monitoring stations
 - monitoring up to **2000** MHz
 - direction finding up to **1000** MHz
 - number of mobile monitoring stations 1
 - facilities available at mobile monitoring stations
 - monitoring up to **1000** MHz
 - direction finding up to **1000** MHz

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

We don't have monitoring coverage for all over the country. We're establishing regional monitoring stations, but we don't have with equipment for them;we need monitoring equipment above 2 GHz

13. Do you perform technical analyses of radio frequency interference complaints? YES NO
- established consultation process, involving Government and non-government organization, for resolving these complaints? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

We need information for the international and EU practice in this field?

14. What computers and operating systems are in use for national spectrum management?
- Type of computers **PCs Pentium**
- Operating system(s) **Windows NT**

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

We require placing into operation and complementary of the software of the German company L&S

15. Number of technical/professional staff in national spectrum management? 17

16. Number of support staff in national spectrum management? 17 + 7
17. Describe your country's spectrum management structure (Please enclose a copy of organization chart).

www.stc.bg You are welcome to visit our web site!

18. Do you use the ITU-R Handbooks and Reports on:
- a) National Spectrum Management, version 1995? YES
 - b) Spectrum Monitoring¹, version 1995?
 - c) Computer-aided Techniques for Spectrum Management, version 1999? YES
 - d) HF Broadcasting System Design, version 1999? YES
 - e) Report SM.2012, Economic Aspects of Spectrum Management, version 1997²?
 - f) Windows Basic Automated Spectrum Management System (WinBASMS) Software Version 1997, Manual Version 1997

What additional information/handbooks do you need from the ITU?

Planning and coordination handbooks for broadcasting, fixed, mobile, satellite services

To be returned no later than 31 January 2000 to:

ITU-D Study Groups Secretariat

Telecommunication Development Bureau

Fax: +41 22 730 54 84

E-Mail: devsg1@itu.int

THANK YOU FOR YOUR COOPERATION

¹ The Spectrum Monitoring Handbook is currently being updated, therefore, you are urged to contact Mr Jan Verduijn (NL), the designated Rapporteur from ITU-R Study Group 1, Working Party 1C if you have any comments that you wish included in a future version of this Handbook.

² This Report SM.2012 was updated during the ITU-R Study Group 1 meeting in August 1999. This new version is expected to be available in the three working languages by January 2000.

