

Croatia

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Zagreb, 31 January 2000

ITU-D Study Groups Secretariat
Telecommunication Development Bureau

Fax: +41 22 730 54 84

E-Mail: devsg2@itu.int

Our Ref: 61-4/99

Subject: **Questionnaire on national radio frequency spectrum management to seek information needed for responding to Resolution 9 of the World Telecommunication Development Conference (WTDC-98, Valleta)**

Dear Sirs,

Please, find enclosed our answer on your questionnaire contained in the Administrative Circular letter CA/71 of 2 November 1999.

DIRECTOR

Dominik Filipović

**FOCAL POINT REGARDING CORRESPONDENCE
ON THIS QUESTIONNAIRE**

(PARTS I AND II)

- | | | | | |
|----|--|-------------------------------------|---|--|
| 1. | Mr. | <input checked="" type="checkbox"/> | FILIPOVIĆ | DOMINIK |
| | Ms | <input type="checkbox"/> | Family Name | First Name |
| 2. | Country | | REPUBLIC OF CROATIA | |
| 3. | Name of the
Administration/Organization | | CROATIAN INSTITUTE OF TELECOMMUNICATIONS | |
| 4. | Title | | DIRECTOR | |
| 5. | Address | | PRISAVLJE 14, HR-10000 ZAGREB CROATIA | |
| 6. | Tel.: + 385 1 616 91 10 | | Fax: + 385 1 619 66 62 | E-Mail:
dominik.filipovic@telekom.hr |

*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*

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		Yes	
28-29.7	AMATEUR AMATEUR-SATELLITE		Yes	
29.7-30.005	FIXED MOBILE		MOBILE (primary status) Fixed (secondary status)	
30.005-30.01	SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH		MOBILE Space operation Fixed Space research	
30.01-37.5	FIXED MOBILE		MOBILE Fixed	
37.5-38.25	FIXED MOBILE Radio astronomy S5.149		MOBILE except aeronautical mobile Fixed Radio astronomy	
38.25-39.986	FIXED MOBILE		MOBILE Fixed	

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
39.986-40.02	FIXED MOBILE Space research		MOBILE Fixed Space research	
40.02-40.98	FIXED MOBILE S5.150		MOBILE Fixed	
40.98-41.015	FIXED MOBILE Space research S5.160 S5.161		MOBILE Fixed Space research	
41.015-44	FIXED MOBILE S5.160 S5.161		Yes	
44-47	FIXED MOBILE S5.162 S5.162A		MOBILE Fixed	

47-75.2 MHz

47-68 BROADCASTING	47-50 FIXED MOBILE	47-50 FIXED MOBILE BROADCASTING	Yes	
	50-54 AMATEUR S5.166 S5.167 S5.168 S5.170			

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
S5.162A S5.163 S5.164 S5.165 S5.169 S5.171	54-68 BROADCASTING Fixed Mobile S5.172	54-68 FIXED MOBILE BROADCASTING		
68-74.8 FIXED MOBILE except aeronautical mobile S5.149 S5.174 S5.175 S5.177 S5.179	68-72 BROADCASTING Fixed Mobile S5.173	68-74.8 FIXED MOBILE S5.149 S5.176 S5.179	MOBILE except aeronautical mobile Fixed	
	72-73 FIXED MOBILE			
	73-74.6 RADIO ASTRONOMY S5.178			
	74.6-74.8 FIXED MOBILE			
74.8-75.2	AERONAUTICAL RADIONAVIGATION S5.180 S5.181		Yes	

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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		MOBILE except aeronautical mobile Fixed	
	75.4-76 FIXED MOBILE	75.4-87 FIXED MOBILE S5.149 S5.182 S5.183 S5.188		
	76-88 BROADCASTING Fixed Mobile			
	87.5-100 BROADCASTING S5.190	S5.185	87-100 FIXED MOBILE BROADCASTING	Yes
	88-100 BROADCASTING		Yes	
100-108	BROADCASTING S5.192 S5.194		Yes	
108-117.975	AERONAUTICAL RADIONAVIGATION S5.197		Yes	

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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) S5.111 S5.198 S5.199 S5.200 S5.201 S5.202 S5.203 S5.203A S5.203B		Yes	
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		METEOROLOGICAL SATELLITE (space-to-Earth) MOBILE SATELLITE (space-to-Earth) Space operation (space-to-Earth) Space research (space-to-Earth)	
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		The same as above	

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks

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			
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		The same as above	
138-143.6 AERONAUTICAL MOBILE (OR)	138-143.6 FIXED MOBILE RADIOLOCATION	138-143.6 FIXED MOBILE Space research (space-to-Earth)	AERONAUTICAL MOBILE (OR) LAND MOBILE	

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Read only				To be completed	
Allocation to services					
Region 1	Region 2	Region 3	National Allocation	Remarks	
S5.210 S5.211 S5.212 S5.214	Space research (space-to-Earth)	S5.207 S5.213	S5.214		
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) LAND MOBILE Space research (space-to-earth) S5.214		
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) LAND MOBILE) S5.214		
144-146	AMATEUR S5.120 AMATEUR-SATELLITE S5.216		Yes		
146-148 FIXED MOBILE except aeronautical mobile (R)	146-148 AMATEUR S5.217	146-148 AMATEUR FIXED MOBILE S5.217	MOBILE except aeronautical mobile (R)		

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
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		MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) Fixed S5.221	
149.9-150.05	MOBILE-SATELLITE (Earth-to-space) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.224B S5.220 S5.222 S5.223		Yes	
150.05-153 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149	150.05-156.7625 FIXED MOBILE		MOBILE except aeronautical mobile RADIO ASTRONOMY Fixed	
153-154 FIXED MOBILE except aeronautical mobile (R) Meteorological Aids			MOBILE except aeronautical mobile (R) Meteorological aids Fixed	
154-156.7625 FIXED MOBILE except aeronautical mobile (R)			MOBILE except aeronautical mobile (R) Fixed	

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
S5.226 S5.227	S5.225 S5.226 S5.227			
156.7625-156.8375	MARITIME MOBILE (distress and calling) S5.111 S5.226		Yes	
156.8375-174 FIXED MOBILE except aeronautical mobile S5.226 S5.229	156.8375-174 FIXED MOBILE S5.226 S5.230 S5.231 S5.232		MOBILE except aeronautical mobile Fixed	
174-223 BROADCASTING S5.235 S5.237 S5.243	174-216 BROADCASTING Fixed Mobile S5.234	174-223 FIXED MOBILE BROADCASTING S5.233 S5.238 S5.240 S5.245	Yes	
	216-220 FIXED MARITIME MOBILE Radiolocation S5.241 S5.242			

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks

220-335.4 MHz

	220-225			
223-230 BROADCASTING Fixed Mobile	AMATEUR FIXED MOBILE Radiolocation S5.241	223-230 FIXED MOBILE BROADCASTING	BROADCASTING Mobile	
S5.243 S5.246 S5.247	225-235 FIXED MOBILE	AERONAUTICAL RADIONAVIGATION Radiolocation S5.250		
230-235 FIXED MOBILE		230-235 FIXED MOBILE AERONAUTICAL RADIONAVIGATION S5.250	BROADCASTING Mobile Fixed	
S5.247 S5.251 S5.252				
235-267	FIXED MOBILE S5.111 S5.199 S5.252 S5.254 S5.256		235-240 MHz BROADCASTING Mobile 240-267 MHz MOBILE Fixed	

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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		MOBILE Space operation (space-to-Earth) Fixed	
272-273	SPACE OPERATION (space-to-Earth) FIXED MOBILE S5.254		MOBILE Space operation (space-to-Earth) Fixed	
273-312	FIXED MOBILE S5.254		MOBILE Fixed	
312-315	FIXED MOBILE Mobile-satellite (Earth-to-space) S5.254 S5.255		MOBILE Mobile-satellite (Earth-to-space) Fixed	
315-322	FIXED MOBILE S5.254		The same as above	
322-328.6	FIXED MOBILE RADIO ASTRONOMY S5.149		MOBILE Fixed	
328.6-335.4	AERONAUTICAL RADIONAVIGATION S5.258 S5.259		Yes	

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks

335.4-410 MHz

335.4-387	FIXED MOBILE S5.254		MOBILE Mobile-satellite (space-to-earth) Fixed	
387-390	FIXED MOBILE Mobile-satellite (space-to-Earth) S5.208A S5.254 S5.255		The same as above	
390-399.9	FIXED MOBILE S5.254		The same as above	
399.9-400.05	MOBILE-SATELLITE (Earth-to-space) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.222 S5.224B S5.260 S5.220		RADIO-NAVIGATION SATELLITE	
400.05-400.15	STANDARD FREQUENCY AND TIME SIGNAL- SATELLITE (400.1 MHz) S5.261 S5.262		Yes	
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		METEOROLOGICAL AIDS METEOROLOGICAL- SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to- Earth) Space operation (space-to-Earth) Space research (space-to-earth)	

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
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		METEOROLOGICAL AIDS Space operation (space-to-Earth) Space research (Earth-to-space) Mobile Meteorological-satellite (Earth-to-space) Mobile except aeronautical mobile	
402-403	METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile		The same as above	
403-406	METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile		The same as above	
406-406.1	MOBILE-SATELLITE (Earth-to-space) S5.266 S5.267		Yes	
406.1-410	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149		MOBILE except aeronautical mobile RADIO-ASTRONOMY Fixed	

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks

410-470 MHz

410-420	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) S5.268		MOBILE except aeronautical mobile Fixed	
420-430	FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271		MOBILE Fixed	
430-440 AMATEUR RADIOLOCATION S5.138 S5.271 S5.272 S5.273 S5.274 S5.275 S5.276 S5.277 S5.280 S5.281 S5.282 S5.283	430-440 RADIOLOCATION Amateur S5.271 S5.276 S5.277 S5.278 S5.279 S5.281 S5.282		AMATEUR S5.275 S5.280	
440-450	FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271 S5.284 S5.285 S5.286		MOBILE except aeronautical mobile Fixed	
450-455 S5.286E	FIXED MOBILE S5.209 S5.271 S5.286 S5.286A S5.286B S5.286C S5.286D		MOBILE Fixed	

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
455-456 FIXED MOBILE S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E	455-456 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.286A S5.286B S5.286C S5.209 S5.271	455-456 FIXED MOBILE S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E	The same as above	
456-459 FIXED MOBILE S5.271 S5.287 S5.288			The same as above	
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	The same as above	
460-470 FIXED MOBILE Meteorological-Satellite (space-to-Earth) S5.287 S5.288 S5.289 S5.290			MOBILE Meteorological-satellite (space-to-Earth) Fixed	

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks

470-890 MHz

Region 1	Region 2	Region 3	National Allocation	Remarks
<p>470-790 BROADCASTING</p> <p>S5.149 S5.291A S5.294 S5.296 S5.300 S5.302 S5.304 S5.306 S5.311 S5.312</p> <hr/> <p>790-862 FIXED BROADCASTING S5.312 S5.314 S5.315 S5.316 S5.319 S5.321</p>	<p>470-512 BROADCASTING Fixed Mobile S5.292 S5.293</p> <hr/> <p>512-608 BROADCASTING S5.297</p> <hr/> <p>608-614 RADIO ASTRONOMY Mobile-satellite except aeronautical mobile- satellite (Earth-to-space)</p> <hr/> <p>614-806 BROADCASTING Fixed Mobile</p> <p>S5.293 S5.309 S5.311</p> <hr/> <p>806-890 FIXED MOBILE BROADCASTING</p>	<p>470-585 FIXED MOBILE BROADCASTING</p> <p>S5.291 S5.298</p> <hr/> <p>585-610 FIXED MOBILE BROADCASTING RADIONAVIGATION S5.149 S5.305 S5.306 S5.307</p> <hr/> <p>610-890 FIXED MOBILE BROADCASTING</p>	<p>BROADCASTING</p> <p>S5.316</p>	

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
862-890 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322			MOBILE except aeronautical mobile Fixed	
S5.319 S5.323	S5.317 S5.318	S5.149 S5.305 S5.306 S5.307 S5.311 S5.320		

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	The same as above	
	902-928 FIXED Amateur Mobile except aeronautical mobile Radiolocation S5.150 S5.325 S5.326			

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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
S5.323	928-942 FIXED MOBILE except aeronautical mobile Radiolocation S5.325	S5.327		
942-960 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 S5.323	942-960 FIXED MOBILE	942-960 FIXED MOBILE BROADCASTING S5.320	MOBILE except aeronautical mobile FIXED	

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 **REPUBLIC OF CROATIA**

Focal point **DOMINIK FILIPOVIĆ**

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? **July 1999**
– 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?

No major problems

2. Have you published regulations and procedures for national spectrum management (e.g. radio services, license requirements etc.)? **Not yet completed**

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

No major problems

3. Do you have a national radio frequency spectrum allocation table? YES NO
the work of new one is under way

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

No major problems

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

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

No major problems

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.
6. What is the total cost of national spectrum management functions performed by your Government (expressed in Swiss francs)? Not yet
- What is the source of the funding required to accomplish these spectrum management functions?
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.
- Fee for one radio channel, Fee for one radio equipment, Fee for the coverage of the inhabitants**
8. Do you maintain centralized databases for spectrum management? YES NO
but not yet completed
- What is the approximate size of your database (expressed in number of records)? About 100 000
- Do you have a computerized data base management system (DBMS)? YES NO
but not yet completed
- What DBMS system do you use? L & S
- 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?
- No major problems**
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?
- No major problems**

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?

No major problems

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?

No major problems

12. Do you perform radio monitoring? YES NO

- number of fixed monitoring stations 7
- facilities available at fixed monitoring stations
 - monitoring up to **2500** MHz
 - direction finding up to **960** MHz
- number of mobile monitoring stations 6
- facilities available at mobile monitoring stations
 - monitoring up to **2500** MHz
 - direction finding up to **960** MHz

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

No major problems

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?

No major problems

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

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

No major problems

15. Number of technical/professional staff in national spectrum management? **20**
16. Number of support staff in national spectrum management? **10**
17. Describe your country's spectrum management structure (Please enclose a copy of organization chart).

Not yet completed

18. Do you use the ITU-R Handbooks and Reports on:
- a) National Spectrum Management, version 1995?
 - b) Spectrum Monitoring¹, version 1995?
 - 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?
 - f) Windows Basic Automated Spectrum Management System (WinBASMS) Software Version 1997, Manual Version 1997

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

We are following the issues of new ITU editions _

*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.

