

Turkey

**FOCAL POINT REGARDING CORRESPONDENCE ON THIS QUESTIONNAIRE
(PARTS I AND II)**

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 Family Name First Name
2. Country: **TURKEY**
3. Name of the Administration/Organization : **REPUBLIC OF TURKEY**
MINISTRY OF TRANSPORTATION
GENERAL DIRECTORATE OF RADIOCOMMUNICATIONS
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*To be returned no later than **31 January 2000** to:*

ITU-D Study Groups Secretariat

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

27.5-47 MHz

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
27.5-28	METEOROLOGICAL AIDS FIXED MOBILE		FIXED MOBILE	
28-29.7	AMATEUR AMATEUR-SATELLITE		FIXED MOBILE	
29.7-30.005	FIXED MOBILE		FIXED MOBILE	SRD(29.7-47.00MHz)
30.005-30.01	SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH		FIXED MOBILE	SRD(29.7-47.00MHz)
30.01-37.5	FIXED MOBILE		FIXED MOBILE	SRD(29.7-47.00MHz)
37.5-38.25	FIXED MOBILE Radio astronomy S5.149		FIXED MOBILE	SRD(29.7-47.00MHz)
38.25-39.986	FIXED MOBILE		FIXED MOBILE	SRD(29.7-47.00MHz)
39.986-40.02	FIXED MOBILE Space research		FIXED MOBILE	SRD(29.7-47.00MHz)

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40.02-40.98	FIXED MOBILE S5.150	FIXED MOBILE	SRD(29.7-47.00MHz)
40.98-41.015	FIXED MOBILE Space research S5.160 S5.161	FIXED MOBILE	SRD(29.7-47.00MHz)
41.015-44	FIXED MOBILE S5.160 S5.161	FIXED MOBILE	SRD(29.7-47.00MHz)
44-47	FIXED MOBILE S5.162 S5.162A	FIXED MOBILE	SRD(29.7-47.00MHz)

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47-75.2 MHz

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

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75.2-137.175 MHz

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

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<p>117.975-137</p>	<p>AERONAUTICAL MOBILE (R) S5.111 S5.198 S5.199 S5.200 S5.201 S5.202 S5.203 S5.203A S5.203B</p>	<p>BROADCASTING</p>	
<p>137-137.025</p>	<p>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</p>	<p>MOBILE EXCEPT AERONAUTICAL MOBILE (OR)</p>	
<p>137.025-137.175</p>	<p>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</p>	<p>MOBILE EXCEPT AERONAUTICAL MOBILE (OR)</p>	

137.175-148 MHz

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
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		MOBILE EXCEPT AERONAUTICAL MOBILE (OR)	
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		METEOROLOGICAL- SATELLITE	
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) MARITIME MOBILE	SRD (138.2-138.45 MHz)

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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) MARITIME MOBILE	SRD (138.2-138.45 MHz)
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) MARITIME MOBILE	SRD (138.2-138.45 MHz)
144-146	AMATEUR S5.120 AMATEUR-SATELLITE S5.216		AERONAUTICAL MOBILE (OR) MARITIME MOBILE	SRD (138.2-138.45 MHz)
146-148 FIXED MOBILE except aeronautical mobile (R)	146-148 AMATEUR S5.217	146-148 AMATEUR FIXED MOBILE S5.217	FIXED MOBILE	
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) S5.218 S5.219 S5.221		FIXED MOBILE	SRD(149.800-149.950MHz)

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149.9-150.05	MOBILE-SATELLITE (Earth-to-space) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.224B S5.220 S5.222 S5.223	RADIONAVIGATION SATELLITE	
150.05-153 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149	150.05-156.7625 FIXED MOBILE	FIXED MOBILE	
153-154 FIXED MOBILE except aeronautical mobile (R) Meteorological Aids		FIXED MOBILE	
154-156.7625 FIXED MOBILE except aeronautical mobile (R) S5.226 S5.227	S5.225 S5.226 S5.227	FIXED MOBILE	
156.7625-156.8375	MARITIME MOBILE (distress and calling) S5.111 S5.226	FIXED MOBILE	
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	FIXED MOBILE	SRD (173.9650-174.0150)

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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	BROADCASTING FIXED MOBILE
	216-220 FIXED MARITIME MOBILE Radiolocation S5.241 S5.242		

220-335.4 MHz

Read only				To be completed	
Allocation to services					
Region 1	Region 2	Region 3	National Allocation	Remarks	
223-230 BROADCASTING Fixed Mobile S5.243 S5.246 S5.247	220-225 AMATEUR FIXED MOBILE Radiolocation S5.241 225-235 FIXED MOBILE	223-230 FIXED MOBILE BROADCASTING AERONAUTICAL RADIONAVIGATION Radiolocation S5.250	BROADCASTING FIXED MOBILE FIXED MOBILE		

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<p>230-235 FIXED MOBILE</p> <p>S5.247 S5.251 S5.252</p>		<p>230-235 FIXED MOBILE AERONAUTICAL RADIONAVIGATION</p> <p>S5.250</p>	<p>FIXED MOBILE</p>
<p>235-267</p> <p>FIXED MOBILE</p> <p>S5.111 S5.199 S5.252 S5.254 S5.256</p>		<p>FIXED MOBILE</p>	<p>FIXED MOBILE</p>
<p>267-272</p> <p>FIXED MOBILE</p> <p>Space operation (space-to-Earth)</p> <p>S5.254 S5.257</p>		<p>FIXED MOBILE</p>	<p>FIXED MOBILE</p>
<p>272-273</p> <p>SPACE OPERATION (space-to-Earth)</p> <p>FIXED MOBILE</p> <p>S5.254</p>		<p>FIXED MOBILE</p>	<p>FIXED MOBILE</p>
<p>273-312</p> <p>FIXED MOBILE</p> <p>S5.254</p>		<p>FIXED MOBILE</p>	<p>FIXED MOBILE</p>
<p>312-315</p> <p>FIXED MOBILE</p> <p>Mobile-satellite (Earth-to-space)</p> <p>S5.254 S5.255</p>		<p>FIXED</p>	<p>FIXED</p>
<p>315-322</p> <p>FIXED MOBILE</p> <p>S5.254</p>		<p>FIXED MOBILE</p>	<p>FIXED MOBILE</p>
<p>322-328.6</p> <p>FIXED MOBILE</p> <p>RADIO ASTRONOMY</p> <p>S5.149</p>		<p>FIXED MOBILE</p>	<p>FIXED MOBILE</p>

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328.6-335.4	AERONAUTICAL RADIONAVIGATION S5.258 S5.259	FIXED MOBILE	
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335.4-410 MHz

Read only			To be completed
Allocation to services			
Region 1	Region 2	Region 3	National Allocation
335.4-387	FIXED MOBILE S5.254		FIXED MOBILE
387-390	FIXED MOBILE Mobile-satellite (space-to-Earth) S5.208A S5.254 S5.255		FIXED MOBILE
390-399.9	FIXED MOBILE S5.254		FIXED MOBILE
399.9-400.05	MOBILE-SATELLITE (Earth-to-space) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.222 S5.224B S5.260 S5.220		RADIONAVIGATION- SATELLITE
400.05-400.15	STANDARD FREQUENCY AND TIME SIGNAL- SATELLITE (400.1 MHz) S5.261 S5.262		RADIONAVIGATION- SATELLITE

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<p>400.15-401</p>	<p>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</p>	<p>METEOROLOGICAL-SATELLITE (space-to-Earth)</p>	
<p>401-402</p>	<p>METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile</p>	<p>METEOROLOGICAL-SATELLITE (space-to-Earth)</p>	
<p>402-403</p>	<p>METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile</p>	<p>METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (Earth-to-space) FIXED MOBILE</p>	<p>SRD 402-405</p>
<p>403-406</p>	<p>METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile</p>	<p>METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (Earth-to-space) FIXED MOBILE</p>	<p>SRD 402-405</p>

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<p>406-406.1</p>	<p>MOBILE-SATELLITE (Earth-to-space) S5.266 S5.267</p>	<p>METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (Earth-to-space) FIXED MOBILE</p>	
<p>406.1-410</p>	<p>FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149</p>	<p>FIXED MOBILE</p>	

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410-470 MHz

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
410-420	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) S5.268		FIXED MOBILE	
420-430	FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271		FIXED MOBILE	
430-440 AMATEUR RADIOLOCATION	430-440 RADIOLOCATION Amateur S5.271 S5.276 S5.277 S5.278 S5.279 S5.281 S5.282		AMATEUR RADIOLOCATION FIXED MOBILE	
440-450	FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271 S5.284 S5.285 S5.286		FIXED MOBILE	
450-455	FIXED MOBILE S5.209 S5.271 S5.286 S5.286A S5.286B S5.286C S5.286D S5.286E		FIXED MOBILE	

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<p>455-456 FIXED MOBILE</p> <p>S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E</p>	<p>455-456 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.286A S5.286B S5.286C</p> <p>S5.209 S5.271</p>	<p>455-456 FIXED MOBILE</p> <p>S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E</p>	<p>FIXED MOBILE</p>
<p>456-459</p>	<p>FIXED MOBILE</p> <p>S5.271 S5.287 S5.288</p>		<p>FIXED MOBILE</p>
<p>459-460 FIXED MOBILE</p> <p>S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E</p>	<p>459-460 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.286A S5.286B S5.286C</p> <p>S5.209 S5.271</p>	<p>459-460 FIXED MOBILE</p> <p>S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E</p>	<p>FIXED MOBILE</p>
<p>460-470</p>	<p>FIXED MOBILE Meteorological-Satellite (space-to-Earth)</p> <p>S5.287 S5.288 S5.289 S5.290</p>		<p>FIXED MOBILE</p>

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470-890 MHz

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
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	470-862 SRD
	512-608 BROADCASTING S5.297			
790-862 FIXED BROADCASTING S5.312 S5.314 S5.315 S5.316 S5.319 S5.321	608-614 RADIO ASTRONOMY Mobile-satellite except aeronautical mobile-satellite (Earth-to-space)	585-610 FIXED MOBILE BROADCASTING RADIONAVIGATION S5.149 S5.305 S5.306 S5.307	BROADCASTING	BROADCASTING FIXED MOBILE
	614-806 BROADCASTING Fixed Mobile S5.293 S5.309 S5.311			
	806-890 FIXED MOBILE BROADCASTING			

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<p>862-890 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 S5.319 S5.323</p>	<p>S5.317 S5.318</p>	<p>S5.149 S5.305 S5.306 S5.307 S5.311 S5.320</p>	
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890-1 350 MHz

Read only				To be completed					
Allocation to services									
Region 1		Region 2		Region 3		National Allocation		Remarks	
<p>890-942 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 Radiolocation</p>		<p>890-902 FIXED MOBILE except aeronautical mobile Radiolocation S5.318 S5.325</p>		<p>890-942 FIXED MOBILE BROADCASTING Radiolocation</p>		<p>FIXED MOBILE Radiolocation</p>			
<p>902-928 FIXED Amateur Mobile except aeronautical mobile Radiolocation S5.150 S5.325 S5.326</p>						<p>FIXED MOBILE Radiolocation</p>			

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<p>S5.323</p>	<p>928-942 FIXED MOBILE except aeronautical mobile Radiolocation S5.325</p>	<p>S5.327</p>	<p>FIXED MOBILE Radiolocation</p>	
<p>942-960 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 S5.323</p>	<p>942-960 FIXED MOBILE</p>	<p>942-960 FIXED MOBILE BROADCASTING S5.320</p>	<p>FIXED MOBILE</p>	

QUESTIONNAIRE - PART II**(To be completed by Administrations only)****General Questions on National Spectrum Management**

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

Country **TURKEY**Focal point **___ Abdullah KARAKAŞ Head of Frequency Management Department of General Directorate of Radiocommunications Ankara , Turkey**

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? **Modified (in 1993)**- 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?

NOT YET2. 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?

NOT YET3. 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?

NOT YET

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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?

NOT YET

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)? **20 million Swiss Francs**

- 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.

8. Do you maintain centralized databases for spectrum management? YES NO

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

- Do you have a computerized data base management system (DBMS)? YES NO

- What DBMS system do you use? **ORACLE 8.0**

- 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?

YES [to find Radio Beacon Frequency (283.5-526.5kHz)

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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?

YES

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?

NOT YET

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?

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

YES

12. Do you perform radio monitoring? YES NO

- number of fixed monitoring stations

planned : 17(fixed)

- facilities available at fixed monitoring stations

-- monitoring up to 2500 MHz

-- direction finding up to 2500 MHz

- number of mobile monitoring stations

- facilities available at mobile monitoring stations

-- monitoring up to 2500 MHz

-- direction finding up to 2500 MHz

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

NO

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13. Do you perform technical analyses of radio frequency interference complaints? YES NO

- Do you have an 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?

YES

14. What computers and operating systems are in use for national spectrum management?

Type of computers **SUN/UNIX main server**

PC/winNT cliants and local servers

Operating system(s) _____

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

NOT YET

15. Number of technical/professional staff in national spectrum management? **25**
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).

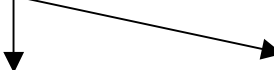
GENERAL DIRECTORATE OF RADIOCOMMUNICATIONS



DIRECTOR GENERAL



DEPUTY DIRECTOR GENERAL(TECHNICAL)



HEAD OF FREQUENCY MANAGEMENT DEPARTMENT



Satellite and BC Division

Terrestrial Services Division
Radionavigation Division

Aeronautical and Maritime

18. Do you use the ITU-R Handbooks and Reports on:
- | | | |
|----|--|------------|
| a) | National Spectrum Management, version 1995 ? | YES |
| b) | Spectrum Monitoring ¹ , version 1995? | YES |
| 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 1997 ² ? | YES |
| f) | Windows Basic Automated Spectrum Management System (WinBASMS) Software | YES |
| g) | Version 1997, Manual Version 1997 | YES |

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

NOT YET

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.

