

**IMPLEMENTATION OF THE 2001 OPERATIONAL PLAN
(ACTIVITIES OF TERRESTRIAL SERVICES DEPARTMENT (TSD))**

3 Terrestrial Services¹

3.0 Executive summary

During the year 2001, TSD's activities were focused on the treatment of submissions from administrations, mainly frequency assignment notices to stations in various terrestrial radiocommunication services, under the relevant provisions of Articles S9, S11, S12 and S20 of the Radio Regulations, as well as under the relevant provisions of various Regional Agreements. The TSD's objective (to carry out the standard processing and examination procedures within the statutory limits and to eliminate the accumulated backlog, either through a standard tool or through alternate solutions) was achieved with respect to the major part of administrations' submissions; however, slight backlog is being accumulated in some areas (treatment of submissions under RJ81 Agreement, Article S11 examinations in the bands shared with space service, Article S11 examinations in the LF/MF bands).

The relevant information resulting from these activities was published according to the standard patterns:

- on a bi-weekly basis, through the International Frequency Information Circular (IFIC), for the submissions under Articles S9 of the RR, under various plan modification procedures, and under Article S11 of the RR;
- on a monthly basis, through regular CD publications, for the submission under Article S12 of the RR;
- in accordance with pre-established schedules, as indicated in the relevant publication notices, for the submissions relevant to the publication of various service documents listed in Article S20 of the RR.

At the same time, TSD continued to meet the increasing demand for assistance from administrations, international organizations, private companies and other entities in the application of regulatory, administrative and operational procedures including detailed calculation results and test calculations. Reports of harmful interference were accorded the highest priority, as were reports of unauthorized emissions in frequency bands reserved for safety services.

TSD also applied the relevant administrative and operational procedures, and the outcomes of these procedures (e.g., provision of appropriate means of identification) have been disseminated accordingly (e.g., through the Operational Bulletin).

In addition, TSD continued to maintain several databases (such as the electronic version of the IFL, several worldwide and regional plans, the ship and coast stations databases), which represent reference tools for numerous applications. The uninterrupted on-line availability of the ship stations database, to the registered users, through Internet, was highly appreciated by the search and rescue authorities as indispensable tool for their everyday activities.

TSD continued to participate in the further development and testing of the software tools for the processing of notices for terrestrial services (TerRaSys), bearing in mind that the former processing system (FMS) was phased out at the end of 1999, due to the incompatibility of the ITU mainframe configuration with the Year-2000 requirements. In the areas where no operational tools are yet

¹ The numbering of sections follows the numbering scheme of the ITU-R Operational Plan for 2001, see CA/94 at <http://www.itu.int/itudoc/itu-r/ac/ca/ca-94.html> .

integrated within TerRaSys, the Department continued with the application of the provisional arrangements implemented in 2000 (use of software for off-line data capture, including partial validation, and for publication of the partly validated notices on a provisional basis). Further provisional arrangements were introduced in 2001 (publication of the GE75 special sections outside TerRaSys, examination of the partly-validated FXM notices in the non-shared bands, formulation of provisional findings and their promulgation through the BRIFIC and Internet), with a view to minimizing the impact of the incomplete BR software on administrations' rights; such provisional arrangements were highly appreciated by the administrations.

3.1 Coordination requests pertaining to terrestrial services

Table 3-1 indicates the activities related to coordination requests (under S9.21) pertaining to terrestrial services. All requests were processed within the statutory time limits and the resources used were within the forecasts indicated in the Operational Plan (2 professional staff-months). This activity is still being performed outside TerRaSys.

Table 3.1-1: Coordination requests (under S9.21)

Expected input (OP-2001) ²	100
Received notices during 2001	17
Examined notices in 2001	17

3.2 Plan modification procedures for terrestrial services

Tables 3.2-1 and 3.2-2 summarize the activities related to plan modification procedures pertaining to terrestrial services. In addition to the standard examination procedures, the Bureau undertook a review concerning the current status of various administrations in respect to the Regional Agreements that are governing the use of some of the frequency bands for different services in the respective planning areas, which resulted in the adoption, by the RRB, of the relevant Rules of procedure. The following salient points need to be emphasized:

- The backlog related to examination of the notices governed by the Regional broadcasting agreement GE84 has been completely eliminated at the end of October 2001, following the delivery of last missing software tool (updating of the reference situation after the completion of the plan modification procedure). Consequently, no backlog existed, at the end of 2001, in any of the VHF/UHF broadcasting agreements (ST61, GE84 and GE89). It is to be noted that the submissions under the VHF/UHF broadcasting agreements represent more than 95% of all of the submissions under plan modification procedures.
- In the lack of operational tools, under TerRaSys, for examination of notices governed by the LF/MF broadcasting agreements GE75 and RJ81, alternative measures have been considered to allow for early treatment of the relevant notices outside TerRaSys. Consequently, a local database system was implemented for the GE75 Plan, in April 2001, which enabled the treatment of the major part of the relevant submissions under GE75, comprising the compatibility calculations and the publication of the relevant Special Section. Similar arrangement is under consideration regarding the RJ81 Plan, where a slight backlog is being accumulated (55 notices at the end of 2001).

² The expected input relates to the figures indicated in the Operational plan for the year 2001.

- In the lack of operational tools, under TerRaSys, for examination of notices governed by the APS25 and APS26, alternative measures have been implemented (use of local database systems) which permitted the timely treatment of the relevant submissions (11 submissions under APS25; 3 submissions under APS26), as well as the timely application of the relevant steps of the procedures.
- No new notices were received, in 2001, in the bands governed by the GE85M Agreement. The BR applied the relevant steps of the procedures, for the three active cases under GE85M, within the statutory limits and there is no backlog in this regard as far as the BR examination is concerned.
- The resources used were within the limits of the forecasts indicated in the Operational Plan (50 professional and 40 general service staff-months).

Table 3.2-1: Submissions under plan modification procedures (BC/BT services)

Procedure	ST61	GE75	RJ81	GE84	GE89
Expected input	2000	80	60	2000	200
Received Notices	2217	46	13	2426	425
Capture and Validation					
Captured notices	2217	46	0	2426	425
Performance indicator for data capture	Satisfactory	Un-satisfactory	Un-satisfactory	Satisfactory	Satisfactory
Backlog (weeks)	0	0	100	0	0
Examination and publication					
Published notices (Part A)	628	92	0	5175	184
Notices awaiting publication in Part A	194 (8 weeks)	32 (32 weeks)	41 (100 weeks)	156 (15 weeks)	16 (2 weeks)
Published notices (Part B)	2000	31	0	1866	230
Notices awaiting publication in Part B	28 (8 weeks)	58 (16 weeks)	14 (100 weeks)	635 (16 weeks)	3 (10 weeks)

Table 3.2-2: Plan modification procedures (other than BC/BT)

Procedure	AP S25	AP S26	GE85
Expected input	20	10	40
Received Notices	11	3	0
Examination			
Treated cases (including previous periods)	11	3	3
Performance indicator for examination	Satisfactory	Satisfactory	Satisfactory
Backlog (weeks)	0	0	0
Remaining active cases	11	0	3
Earliest date of receipt	14.05.2001	-	22.04.1998

3.3 Notification, examination, recording and other regulatory procedures pertaining to terrestrial services

3.3.1 Processing of notices under Article S11

Table 3.3-1 summarizes the activities related to notification and other regulatory procedures pertaining to terrestrial services: The following salient points need to be emphasized:

- There is no backlog in the data capture of notices pertaining to VHF/UHF broadcasting. Notices pertaining to LF/MF broadcasting are not captured yet due to lack of operational tools; alternative measures are being considered in this respect with a view to their implementation in 2002. As far as the notices pertaining to fixed and mobile services are concerned, and pending the development of standard operational tools, the alternative measures that have been implemented in March 2000 (off-line capture, provisional publication in BRIFIC as a preliminary acknowledgement of receipt) have been continued in 2001; such measures are widely accepted by administrations.
- There was no backlog in the examination of notices pertaining to VHF/UHF broadcasting (at the end of December 2001, there were 456 notices waiting for examination, with the earliest date of receipt 2 November 2001, which is within the statutory limit). Notices pertaining to LF/MF broadcasting are not examined yet due to lack of operational tools; alternative measures are being considered in this respect with a view to their implementation in 2002.
- In the lack of operational tools, under TerRaSys, for examination of notices pertaining to fixed and mobile services, alternative measures have been implemented, in June 2001, which allow for early treatment of some categories of these notices (e.g., notices to fixed and mobile services in the bands that are not shared with space services), outside TerRaSys, on a provisional basis. Under this provisional arrangement, which comprises formulation of findings on a provisional basis, including their publication in the BRIFIC (as explained in CR/163), all of the pending notices in this category have been examined and there was no backlog in this respect. However, all the relevant notices will be subjected to a re-examination (including checks for targets) once the standard examination tools become operational; this

concerns some 76 343 notices (including 31 130 notices in the bands shared with space services, with the earliest date of receipt 4 January 1999).

- The resources used were within the limits of the forecasts indicated in the Operational Plan (70 professional and 90 general service staff-months).

Table 3.3-1: Notification and other regulatory procedures

Procedure	Art. S11	Art. S12	Rec. 402
Expected input	50 000	15 000	30
Received notices	17 799	30 373	0
Capture and Validation			
Captured notices	17 799	30 373	N/A
Performance indicator for data capture	Satisfactory	Satisfactory	N/A
Backlog (weeks)	0	0	0
Examination			
Examined notices	7 747 ³ + 45 081 ⁴	61 264	N/A
Performance indicator for examination	Partially satisfactory	Satisfactory	N/A
Backlog (weeks)	156	0	0

3.3.2 Processing of submissions under Article S12

As indicated in Table 3.3-1, the number of submissions under Article S12 (BC notices in the HF bands) was somewhat higher than the forecasts indicated in the Operational Plan. The treatment of these submissions has followed the standard pattern (all valid notices received up to two weeks before each publication could be incorporated in the database and subjected to the appropriate technical examination). The mandatory notification in electronic format allows for quick treatment of a large number of assignments. Eleven CD-ROMs have been published in 2001, which contain, *inter alia*, HFBC schedules, results of compatibility analysis and the latest version of the HFBC software. As the compatibility analysis is repeated with every new publication, the number of examinations is higher than the number of received notices. This activity also comprises exchange of correspondence with administrations and regional coordination groups concerning possible improvements to software, update of reference tables, improvements in the presentation of calculation results, and maintenance of web pages with latest software updates. In this connection the following software was released in the reporting period:

- Release of HFBCANT v 1.0 (June 2001). The program calculates the radiation patterns and gain for HFBC antennas in accordance with Recommendation ITU-R BS.705-1. The program is available in English, French and Spanish.
- Release of HFBCVAL v1.0 (June 2001). The program assists administrations to validate quickly their HFBC requirement files before submission to the Bureau. The program is available in English, French and Spanish.

³ This figure indicates the standard examination of BC/BT notices in the VHF/UHF bands, under TerRaSys.

⁴ This figure indicates the examination of FXM notices, in the bands not shared with spaces services, under the provisional arrangement described in CR/163.

In the associated activities, TSD staff participated in the relevant coordination meetings (HFCC Preparatory meeting, Prague, 7 – 9 January 2001; Joint HFCC/ASBU coordination meeting for season A-2001 in Geneva, 5 – 9 February 2001; HFCC Steering meeting, Prague, 4 May 2001; ABU-HFC coordination meeting for B-2001 and A-2002 seasons, Kuala Lumpur, 13 – 16 August 2001; HFCC coordination meeting for B-2001, Montreal, 27-31 August 2001) where they presented the relevant software, as well as the associated procedures for broadcasting services. Staff of TSD/BCD also provided organizational support for the Joint HFCC/ASBU coordination meeting in Geneva (February 2001).

Performance indicator: Satisfactory. All activities completed in accordance with the schedule indicated in Article S12. The resources used were within the forecasts indicated in the Operational Plan (30 professional and 2 general staff months).

3.3.3 Other regulatory procedures and treatment of monitoring reports

3.3.3.1 Procedures of Recommendation 402

As indicated in Table 3.3-1, there was no specific activity in response to Recommendation 402, as there were no specific requests for application of the procedure of Recommendation 402. However, as no standard examination is being performed yet with respect to notices pertaining to fixed and mobile services, the need for the application of the procedure of Recommendation 402 may be identified at a later stage.

3.3.3.2 Regular Monitoring Programme in the HF bands

In 2001, reports containing a total of 49 684 observations were received (9 501 observations on paper forms and 40 183 observations using electronic formats). The observations in paper format have been captured and subsequently merged with the observations received in electronic format. The information is available in zipped dBase format for internal and external download at <http://www.itu.int/brtpr/monitoring/index.html>.

The department also reviewed and updated the arrangements concerning the collection and publication of the monitoring data originated from terrestrial stations (Circular-letter CR/159).

In the associated activities, staff of the Department participated in the activities of the Working Party 1C of Study Group 1, with an emphasis on the activities related to the revision of the Spectrum Monitoring Handbook (edition 1995), including the participation of a TSD staff in the concerned meetings (e.g., the Munich meeting from 17 to 23 January 2001, the Chicago meeting from 26 November to 4 December 2001).

3.3.3.3 Special Monitoring Programmes (Circular Letter CR-147)

In response to Resolutions 207(Rev.WRC-2000), 350(WRC-2000) and 800(WRC-2000), and in accordance with the arrangements stipulated in CR-147, following the first program, which took place from 13 November to 3 December 2000, a second program was organized (18 June to 8 July 2001). Statistics related to the number of observations from administrations, which were received in response to this programme, are indicated in Table 3.3.3.3-1. The following administrations submitted reports related to the 2nd programme:

- in the HF bands allocated to the Aeronautical Mobile (R) service : AUS, AUT, BEL, BUL, CZE, D, DNK, E, F, FIN, G, HNG, HOL, INS, IRN, J, KOR, LVA, NOR, POR, S, SUI, THA and USA
- in the HF bands allocated to the Maritime Mobile service: AUS, AUT, BEL, BUL, CZE, D, DNK, E, F, FIN, G, HNG, HOL, INS, IRN, J, KOR, NOR, POR, S, SUI, THA and USA;

- in the HF bands allocated to the Broadcasting service: AUS, AUT, BEL, BUL, CZE, D, DNK, E, F, FIN, G, HNG, HOL, I, INS, IRN, J, KOR, LVA, NOR, POR, S, SUI, THA and USA .

All information is available for internal and external download at <http://www.itu.int/btrpr/monitoring/index.html>.

Table 3.3.3.3-1 Special Monitoring Programme

Aeronautical Mobile (R) service	Maritime Mobile service	HF Broadcasting service	Total
3 925	5 977	11 204	21 106

Performance indicator (for 3.3.3.2 and 3.3.3.3): satisfactory. The observation reports are processed and posted on the Web without delay. About one professional and two general staff-months were used for this activity, which is within the limits indicated in the Operational Plan.

3.4 Application of administrative and operational procedures

In 2001, TSD/FMD handled 24 requests dealing with allocation of series of call signs, blocks of selective call numbers and Maritime Identification Digits, in accordance with Article S19, Resolution 13(Rev.WRC-97), as well as ITU-R and ITU Recommendations. In this respect, the following means of identification were allocated/modified to administrations:

- call sign series: 1 (one series relinquished by POR to ITU for possible redistribution)
- blocks of coast station identification numbers: 1 (USA)
- predetermined group of ship stations: 1 (MLD)
- MID: 4 (one MID for USA, one MID for VCT, one MID for CBG, one MID relinquished by POR to ITU for possible redistribution)

Assistance and clarifications concerning administrative provisions of the RR were given to several administrations, as well as to a number of entities outside the administrations (operating agencies, private companies and general public). Necessary liaison with IMO, Inmarsat / IMSO, ICAO, and the UN was provided with regard to the application of the ITU treaty texts within these organizations. A total of 253 communications was exchanged.

The ITU Master List for means of identification has been maintained and updated using the Global Administration Database (GLAD).

Performance indicator: satisfactory. All requests were treated in time and administrations in almost all cases follow the course of actions and other guidance suggested by BR. The staff resources used were within the forecasts indicated in the Operational Plan (3 professional and 8 general service staff-months).

3.5 Implementation of conference resolutions related to terrestrial services

In 2001, staff of the Department continued with the follow-up activities that were initiated in this regard (monitoring programmes – see paragraph 3.3.3.3 above, etc). Other aspects concerning the application of the decisions from previous conferences are under ongoing review.

Performance indicator: Satisfactory (all relevant activities initiated in time; no complaint received from a Member State).

3.6 TSD activities in software development for processing of terrestrial notifications

The software development is being performed by the IAP Department of the BR, while the TSD staff is involved in formulating the user requirements and in testing the delivered components. In 2001, staff of the Department continued with the testing of various components of the new TerRaSys. The major activities in this regard are listed below:

- Review of the results of data conversion from FMS structure to TerRaSys structure and adaptation of conversion rules to resolve identified problems; as a result of this review, the conversion results were officially approved in May 2001 and the administrations were informed accordingly (CR/161).
- Identification of incoherent records from the FMS database and analysis of possible options to resolve cases of incoherent data.
- Review of Validation Rules with a view to their clarifying.
- Maintenance of the submission guidelines for non-broadcasting notices made available to administrations on the ITU Web site.
- On-going testing of all components made available (TerRaQ, TerRaNV, TerRaTron, TerRaRevQ, TerRaPub) and identification of possible improvements.
- Ongoing support in fixing bugs and in system development.
- Beta testing of the E_u calculations for GE84; the related software module was approved for production in April 2001.

5 TSD participation in RRB-related activities

In 2001, TSD staff continued with the ongoing review of the current Rules of procedure with a view to their adaptation to the decisions of WRC-2000, as well as with preparation of other draft rules necessary for ongoing examinations (cf. Circular-letters CCRR/10, CCRR/12, CCRR/13, CCRR/14 and CCRR/15). The adopted Rules of procedure enabled the timely treatment of the notices where the Radio Regulations, or the relevant Regional Agreements, are not explicit (e.g., treatment of digital transmissions in the context of GE89 Agreement).

Performance indicator: Satisfactory (all activities initiated in time). The staff resources used (three professional staff months) were within the forecasts indicated in the Operational Plan.

6 TSD participation in RAG-related activities

Staff of the Department prepared the necessary input to the Ninth RAG meeting (March, 2001) as well as the necessary organizational support. The conclusions from the RAG-2001 meeting were scrutinized and appropriate follow-up activities were initiated and carried out (e.g., submission of documents to WGR, to C-2001, etc).

In addition, preparatory activities for the RAG-2002 meeting were initiated (preparation of the invitation, including the draft agenda, see CA/105), preparation of initial versions of BR submissions to RAG-2002 (e.g., draft Operational Plan for the biennium 2002- 2003, review of Resolutions and Recommendations from WARC/WRC in pursuance to Resolution 95(Rev.WRC-2000), preparation of status reports on the issues that are on the RAG-2002 agenda), etc.

Performance indicator: Satisfactory (all activities completed in time; satisfaction has been expressed by Member States). The staff resources used (two professional and one general service staff months) were within the forecasts indicated in the Operational Plan.

7 TSD participation in conference preparation activities

7.1 In 2001, TSD staff continued with the ongoing activities related to the preparation of WRC-03 (e.g., organization of monitoring programmes in response to Resolutions 207(Rev.WRC-2000) and 350(WRC-2000); submitting briefing notes and explanatory texts related to various WRC-03 agenda items, etc.).

7.2 In 2001, TSD staff was involved in the preparatory activities concerning the convening of the Regional Radiocommunication Conference to revise the European Broadcasting Agreement Stockholm-1961, such as participation in the conference preparatory meetings of the relevant regional organizations (e.g., Ad-hoc Group of CEPT FM PT-24 (Geneva, 1-2 March 2001), EBU Technical Assembly (Munich, 21-23 March 2001)), preparation of input documents for RAG-2001 and C-2001, participation in the preparation of the circular-letters from the General Secretariat after the C-2001, etc.

8 Seminars and related activities

8.1 Staff of the Department participated extensively in the organization and the conduct of the BR Terrestrial workshop (Geneva, 19-23 November 2001). TSD staff also participated in the BR Regional Seminar (Mexico City, 24 – 28 September 2001).

8.2 Staff of the Department undertook several missions to support some of the BDT activities (e.g., participation in BDT Workshop on spectrum management in Dakar (23 –27 April 2001); the workshop on setting-up of spectrum management training facilities in Rabat (10 – 11 July 2001), the second module of BDT Workshop on advanced spectrum management, in Praia CPV (8-12 October 2001) and the BDT Workshop (module 2/3) on advanced spectrum management in Nairobi (15-19 October 2001)).

Performance indicator: satisfactory (all activities completed in time; satisfaction has been expressed by Member States). The staff resources used were within the forecasts indicated in the Operational Plan.

9 Development of BR publications

9.1 Regulatory publications (including publication of service documents)

9.1.1 In 2001, the preparation of the regulatory publications and the service documents followed the standard pattern, as foreseen in the Operational Plan.

9.1.2 With regard to the basic regulatory publication, the “BR International Frequency Information Circular” (BRIFIC on the CD-ROM), which represents a consolidated regulatory publication in pursuance to the Radio Regulations and various Regional Agreements, twenty-five regular issues were published in 2001 on a bi-weekly basis (Nos. 2435 to 2459). As far as terrestrial services are concerned, each IFIC contains, in Access database format, the complete and the permanently updated IFL, the updated versions of the terrestrial frequency assignment plans, as well as details on the transactions (frequency assignment notices) in progress. It also contains the permanently updated Preface, as well as software for validation of notices to terrestrial services. It also contains particulars of FXM notices treated under the provisional arrangements, including information on the provisional findings for FXM notices in the bands that are not shared with space services. As a complement to this publication, relevant extracts from the CD-ROM (Special sections, index of notices under treatment comprising

incremental changes in the last edition of BRIFIC compared with the previous one, FXM data, etc.) are also posted on the ITU Web site.

9.1.3 With regard to service documents, the publication followed the dynamics indicated in the Operational Plan, notably:

- List of Coast Stations (List IV): two supplements (Nos. 2 and 3 to the 17th edition of the List): 394 pages.
- List of ship stations (List V): one supplement to the 40th edition, the 41st edition itself and one supplement to the 41st edition: 3 371 pages and 2 CD-ROM. It is to be noted that, in response to several categories of users, the 41st edition of List V (and its supplement) was published in a combined format: paper version containing particulars of all ship stations that are normally engaged on international voyages, and a CD-ROM version containing the complete information on all ship stations included in the ITU database on ship stations. The innovative approach is widely accepted by the customers.
- List of Radiodetermination and Special Service Stations (List VI): two supplements (Nos. 2 and 3 to the 14th edition): 154 pages.
- List of Call-signs of Maritime mobile Stations (List VIIA): one supplement to the 19th edition (No. 7), the 20th edition of the list itself and two supplements to the 20th edition (Nos. 1 and 2): 3880 pages. It is to be noted that, due to increased volume of the information, the 20th edition was published in two volumes.
- List of call signs of stations other than the amateur stations, experimental stations and stations of the maritime mobile service (List VIIB): two supplements to the 16th edition (Nos. 2 and 3): 53 pages. It is to be noted that these were the last activities with respect to this publication, which is discontinued with effective date of 31 December 2001, consequential to the decisions of WRC-2000.
- List of Monitoring Stations (List VIII): one complete edition (9th edition): 150 pages.

9.1.4 In addition to the standard treatment of notifications from administrations related to the above publications, activities were also undertaken on the publication of the relevant information in the ITU Operational Bulletin. The necessary actions were also initiated concerning the publication, in the Operational Bulletin, of the information concerning the status of radiocommunication between amateur stations of different countries (Circular letter CR 174 was issued with a view to collecting the relevant information from administrations). The Bureau also continues to maintain and to update, on a regular basis, the ship-station database for use by the maritime mobile access and retrieval system (MARS). Pursuant to the request from Cospas-Sarsat, and following the meeting of WP 8B, arrangements were considered for enhancing the search capabilities of MARS.

9.1.5 Staff of the Department was also involved in checking parts of the new edition of the Radio Regulations, which incorporates the modifications performed at WRC-2000, as well as the updated version of the allotment plans to Appendices 25 and 26.

9.1.6 Staff of the Department was also involved in preparation of the “Manual for use by the Maritime Mobile and Maritime Mobile-Satellite Services” the next edition of which is scheduled for early 2002, and which incorporates the modifications performed at WRC-2000 and RA-2000 (English: 538 pages, French: 547 pages, Spanish: 551 pages).

Performance indicator: satisfactory (all activities completed in time; no complaints were received from users, excepting the ones related to difficulties in installing the BRIFIC). The staff resources used (20 professional and 80 general service staff-months) were within the forecasts indicated in the Operational Plan.

10 Assistance to Members

In 2001, TSD continued to provide various kinds of assistance to administrations, as listed in paragraphs 10.1 to 10.3 below.

Performance indicator (for sections 10.1 to 10.4): satisfactory (all requests treated in time, satisfaction has been expressed by Member States). The staff resources used (6 professional and 2 general service staff months) were roughly within the forecasts indicated in the Operational Plan.

10.1 Specific assistance to administrations of developing countries

In 2001, TSD/BCD received two staff from Mali (from 5 – 16 March 2001) and provided the requested assistance concerning the re-planning the frequency band 87.5 – 108 MHz, for FM/BC, so as to respond to the new requirements.

10.2 Special monitoring and treatment of cases of harmful interference

In 2001, TSD/TPR continued with the special monitoring program referred to in Resolution 205. Some 38 reports were received in this regard concerning 48 unauthorized emissions. As a result of the Bureau's actions, 20 unauthorized emissions have ceased.

In addition, the Bureau dealt with 210 cases of harmful interference in 2001, 95 of them being new cases, and with 4 cases of special assistance to administrations. During 2001, 86 cases have been closed.

10.3 Special assistance on coordination, notification and plan modification procedures

In 2001, TSD provided the following assistance to administrations related to the application of various regulatory procedures:

- Detailed frequency search and test calculations for GE75: to one administration (CHN): 1 person-day.
- Detailed frequency search and test calculations for GE84: to twelve administrations (ARM, BFA, BHR, BUL, GUI, ISR, MDA, MLI, SEN, SYR, YUG, UAE): 45 person-days
- Detailed calculation results and test calculations for GE89: to five administrations (BEN, BHR, EGY, KEN, SEN): 15 person-days.
- Assistance on coordination for ST61: to one administration (ISR): 10 person-days.
- Assistance in the frame of the Article S9 procedures of S9.18 and S9.46 to two administrations (F, RUS): 5 person-days.
- Assistance in the determination of suitable frequencies in the frame of the Article S12 procedures of S12.12 and S12.33 to one administration (BFA): 4 person days.
- Assistance in the determination of suitable frequencies in the frame of the Appendix S25 procedures to one administration (BRU): 2 person days.

10.4 Assistance to non-Sector Members

Assistance and clarifications concerning regulatory and administrative provisions of the RR were given to a number of entities outside the administrations (operating agencies, private companies and general public).

11 Cooperation

11.1 Cooperation with ITU-D

TSD staff participated in several activities organized by the BDT, including a comprehensive assistance to one administration in re-planning of its FM/BC system (see also paragraph 10.1 above), as well as in specific BDT missions (see also paragraph 8.2 above).

11.4 Cooperation with international and regional organizations

The Bureau maintained liaison and cooperation with many International and Regional Organizations, particularly with a view to ensuring effective preparation for WRC-2003 and for RRC/ST61 (IMO, CEPT, ASBU, EBU, etc). TSD staff participated in the EBU Technical Assembly (Munich, 21 – 23 March 2001); in the 74th meeting of the MSC/IMO (London, 30 May – 1 June 2001), in the 15th Cospas-Sarsat Joint committee (Hong Kong, June 2001), as well as in the task group of the Cospas-Sarsat (London, 12-16 February 2001) related to the establishment of an international database on EPIRBs operating on 406 MHz.

Staff of TSD/BCD participated in several meetings concerning the coordination of the HFBC schedules organized by the regional coordination groups (HFCC, ASBU, ABU) and presented the relevant software, as well as the associated procedures for broadcasting services.