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Overview of the regulatory procedures applicable to terrestrial services

Borislav Rackov update of the presentation of Mr. T. Gavrilov at the BR Seminar (Geneva, 2002).

Radio regulatory arrangements: elements and instruments

Radio Regulations AR 5, 7- 14 AP 4, 5, 7 AP 25,26,27,30,30A,30B RS 1,4,33,42,49, 51,55, 59, 77, 84, ...

Regional Agreements

ITU-R Recommendations

Rules of procedure

Special Agreements

Involvement of other organizations

Rights and obligations

 Coordination, obtaining an agreement, plan modification, notification

- Examination, recording status, recognition
- Harmful interference
- Assistance



Performance criteria

Implementation options



How to assign a frequency?

- Is the frequency within a band allocated to the concerned service?
- Are there mandatory RR provisions (power limits, channeling arrangement)? Are they satisfied?
- Subject to a Plan? In conformity with a Plan? Need for applying plan-modification proc.?
- Subject to coordination? Mandatory (RR) or voluntary (Spec. Agreement)?
- Need for notification? What and when?



Radio Regulations: basic concepts

- Frequency block allocations, to defined radio services (Article 5)
- Mandatory or voluntary regulatory procedures (coordination, plan modification, notification, recording) that are adapted to the allocation structure

Allocations structures

- Block allocation methodology, accompanied by footnotes
- Over 40 defined services
- Allocations on primary or secondary basis, or on a non-interference basis
- Worldwide allocations, Regional allocations, national allocations
- Exclusive vs. shared allocations



Frequency allotment/assignment plans

- Means of preserving rights for all Members
- Allotment/assignment
- Worldwide (in the RR): AP 25, 26, 27
- Regional/subregional (in Agreements concluded under the auspices of ITU)
 - BC/BT: ST6<mark>1, G</mark>E84, G<mark>E89</mark>
 - LF/MF BC: GE75, RJ81, RJ88
 - Maritime/aeronautical: GE85M, GE85N
- Plan modification procedures (all except AP 27)
- Seasonal planning HFBC: Article 12
- Other (outside ITU): ICAO, IALA, Vienna, Wiesbaden, Chester, etc



Coordination procedures (RR: Article 9)

 Bilateral/multilateral process, mainly between administrations, to enable implementation of new systems, while protecting existing/planned

Terrestrial services

- 9.21
- 9.16 (transmit. terr vs. receiving earth station in NGSO, if the allocation is under 9.11A/Res.46)
- 9.18 (transmit. terr. vs. receiving earth station in GSO, if shared with same rights, above 100 MHz)
- 9.19 (transmit. terr. vs. typical earth BSS station, if pfd value exceeds the permissible level)

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Overview of the coordination procedure (RR: Article 9)

- Identification of administrations whose assignments are likely to be affected
- Use of standardized methods for calculating the potential for interference (AP 5, ITU-R)
- Application of standardized steps:
 - Exchange of sufficient number of data elements (Ap. 4)
 - Communicating comments within a prescribed period
 - Publication of results of coordination (9.21)



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Notification procedures (RR: Article 11)

- Master Register: reference data on all frequency usage, frequencies that have international implications
- How to notify: Ap. 4
 - Individual (all BC/BT, all those that are subject to plans, many of those in shared bands)
 - Typical
- When:
 - normally 3 months prior the bringing into use
 - 3 years for assignments in shared bands, HAPS in IMT 2000
 - 5 years for assignments to HAPS in FX.



Notification procedures (RR: Article 11) Continued...

- What should be notified: all frequency assignments that may have international implications, except:
 - Common frequencies (distress and calling, GMDSS, SAR,...)
 - Frequencies to mobile stations
 - Frequencies to amateur stations
 - Frequencies to receiving stations, if the mode of operation is a single-frequency (simplex)
 - Frequencies to HFBC, when governed by 12
- Publication (BR IFIC), examination (11.31, 11.32, 11.34) and recording in the MIFR (status) or return
- Submission for other purposes (service documents)





What next?

- Keep in touch with licensing authority: notify changes in characteristics
- Keep in touch with monitoring authority: check the operating characteristics with the notified ones
- Organize monitoring programs: detect operational or technical irregularities in the operation of other administrations' assignments: ensure interference-free operation



Assistance to administrations (7.6, Art. 12, Art. 13, Art. 15, Reg. Agreements)

BR may provide the following assistance:

 In the application of all regulatory procedures (e.g., Articles 9, 11, 12; AP 25, 26, 27, 30, 30A) – non-reply may result in loss of rights

In resolving cases of harmful interference (good will only)

 In resolving cases of alleged contravention or nonobservance of RR (good will only)

