

Informal Working Group 3 (IWG-3)
Preparation for WRC-03

DRAFT PRELIMINARY VIEWS

WRC-2003 Agenda Item 1.27: to review, in accordance with Resolutions **540 (WRC-2000)** and **735 (WRC-2000)**, the ITU-R studies requested in those resolutions, and modify, as appropriate, the relevant regulatory procedures and associated sharing criteria contained in Appendices **S30** and **S30A** and in the associated provisions;

ISSUE: Res 540: Technical criteria and regulatory procedures associated with Appendices S30/S30A (BSS and Feederlink Plans). Res. 735: regulatory, operational and technical studies in the bands allocated to the BSS and the FSS (Earth-to-space) or terrestrial services with respect to S9.19.

BACKGROUND:

WRC-00 adopted a new Regions 1 and 3 BSS 12 GHz Plan and associated feederlink Plan, based on updated technical parameters. In addition regulatory and technical procedures for a new Regions 1 and 3 List were developed for the use of non-standard BSS parameters instead of allowing modifications to the Regions 1 and 3 Plan.

WRC-00 also adopted new sharing criteria between some of the primary allocated services in the Appendix S30 and S30A Plans.

Resolution 540 calls for the ITU-R to review:

- Changes made to regulatory procedures contained in Articles 4 – 7 of Appendices S30 and S30A as well as related modifications made to Articles S9 and S11 and Appendix S5;
- Certain sharing criteria contained in parts of Annexes 1, 3, 4 and 6 of Appendix S30 and, Annexes 1 and 4 of Appendix S30A;
- The limitations of Section A3 of Annex 7 of Appendix S30 in the context of any changes made to the sharing criteria discussed above.

Resolution 735 (WRC-2000) calls for studies of sharing procedures and criteria between receiving earth stations in the broadcasting–satellite service and transmitting earth stations or terrestrial stations in frequency bands allocated to the broadcasting–satellite service and the fixed-satellite service (Earth-to-space) or to terrestrial services. The U.S. also is participating in ITU-R studies to define the permissible pfd levels required at the edge of coverage of the BSS service area.

PRELIMINARY VIEW:**Resolution 540**

Sharing criteria contained in Annexes 1, 3, 4 and 6 of Appendix S30 and Annexes 1 and 4 of Appendix S30A, concerning inter-Regional and inter-Service sharing, need to be reviewed and updated if necessary. Additionally, regulatory aspects contained in parts of Appendices S30, S30A and S5 and Articles S9 and S11 need further review for consistency and completeness. The U.S. will participate in the ITU-R studies on these matters.

Any changes to the above criteria must ensure protection of existing U.S. BSS and FSS systems and their ability to evolve in the future. The U.S. agrees with adopting criteria that eliminates unnecessary coordination between BSS systems and between BSS and FSS systems, while still protecting the Region 2 services.

The U.S. is of the view that the new pfd levels adopted at WRC-00 for determining whether BSS systems impact terrestrial services do not need further study, this is consistent with invites ITU-R (1) of Resolution 540.

The US is of the view that the new pfd levels for Section 6 of Annex 1 to Appendix S30 adopted at WRC-00 for inter-regional sharing (Region 2 BSS modifications to protect the Regions 1 and 3 FSS and for Regions 1 and 3 List modifications to protect the Region 2 FSS), currently contained in Annex 1 to Resolution 540 (WRC-00), are sufficient and should not be modified. The US supports including these pfd limits in Section 6 of Annex 1 of Appendix S30.

The U.S. is of the view that Region 2 accepted a relaxation in the orbital arc limitations of Annex 7 at WRC-00 to allow more BSS assignments in the Regions 1 and 3 Plan and the List. The U.S. considers that any further relaxation will unduly impact the ability of Region 2 to fully use their allocation.

The U.S. will review the Bureau's findings on the impact of the Regions 1 and 3 Plan and List assignments on the BSS and other services in Region 2 when available. The U.S. supports the principle on which the replan took place that the Region 2 Plan should be protected. (See also IWG-3/10)

Resolution 735

Under S9.19 terrestrial stations coordinate with unplanned BSS - the threshold/condition in APS4 is bandwidth overlap and PFD of the terrestrial station at the edge of the BSS service area exceeding permissible levels. The U.S. is of the view that for ubiquitous BSS receivers, it is not practicable to coordinate on a specific earth station basis therefore BSS receive earth stations should be protected on a service area basis consistent with the existing Radio Regulations.

(04.13.01)