

**IWG-3 DRAFT****PRELIMINARY VIEWS ON WRC-03**

**WRC-2003 Agenda Item 1.19:** to consider regulatory provisions to avoid misapplication of the non-GSO FSS single-entry limits in Article S22 based on the results of ITU-R studies carried out in accordance with Resolution 135 (WRC-2000);

**ISSUE:** Avoiding misapplication of non-GSO FSS single-entry limits (e.g., through artificially splitting or combining of non-GSO FSS systems).

**BACKGROUND:** WRC-2000 established single-entry equivalent power flux density (epfd) limits for non-GSO FSS systems in certain frequency bands in Article S22. The epfd limits are the sum of the power flux densities produced at a GSO receive station by the emissions from all the transmit stations within a non-GSO FSS system. The purpose of this item is to conduct technical studies and to consider regulatory procedures in accordance with Resolution 135 [COM5/2] (WRC-2000) to ensure that there will not be any misapplication of limits in Tables S22-1 (epfd<sub>↓</sub>), S22-2 (epfd<sub>↑</sub>) and S22-3 (epfd<sub>is</sub>) either by artificial splitting or by combining of non-GSO systems.

Misapplication of these limits, including artificial splitting or combining of non-GSO FSS systems, could:

- a) cause excess interference into GSO networks;
- b) reduce the number of non-GSO FSS systems that could be implemented in an allocated frequency band;
- c) affect the regulatory requirements for a non-GSO FSS system in the ITU coordination notification process; and
- d) affect non-GSO FSS systems that meet the single-entry limits in Article S22.

Resolution 135 (WRC-2000) invites the ITU-R to conduct technical studies and develop regulatory procedures, in time for consideration by WRC-2003, to avoid misapplication of the single-entry limits included in Tables S22-1, S22-2 and S22-3 of Article 22. This issue was also identified in the CPM report of WRC-2000 in Section 3.1.2.4.10, where it is noted that any misapplication of single-entry limits would invalidate the entire basis of the derivation of these limits.

Further, Resolution 135 instructs the Director of the Radiocommunication Bureau to review and, if appropriate, revise as of the end of WRC-2003, any finding previously made in respect of compliance with the limits contained in Article S22 for a non-GSO FSS system, for which notification information has been received on or after 22 November 1997. The Bureau's review and revision of findings is to be based on the studies undertaken by the ITU-R pursuant to Resolution 135 after WRC-2000.

**PRELIMINARY VIEW:**

1. It is in the interest of all administrations to avoid any misapplication of the single-entry epfd limits. Misapplication could distort the regulatory or interference situation by violating the assumptions

upon which the single-entry epfd limits were based and adversely impact the GSO FSS and BSS networks to be protected.

2. Misapplication could artificially increase the number of non-GSO FSS systems, and thereby increase the interference to GSO networks over the levels agreed at WRC-2000; it could artificially reduce the number of competing non-GSO FSS systems by making coordination between non-GSO systems more difficult.
3. The U.S. continues to participate in the studies within the ITU-R and is reviewing the need for the ITU-R to adopt regulatory procedures to avoid misapplication of the single-entry limits.

(04.12.01)

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