

**IWG-4/009**  
**5/16/01**

**IWG-4**

**PRELIMINARY VIEW FOR WRC-03**  
**On Agenda Item 1.26**

**WRC-2003 Agenda Item 1.26:** To consider the provisions under which earth stations located on board vessels could operate in fixed satellite networks taking into account the ITU-R studies in response to Resolution 82 (WRC-2000).

**Issue –**

What provisions (technical and/or regulatory) need to be added to the RRs in order for earth stations on board vessels (ESVs) to operate in FSS networks without causing interference to the other allocated services

**Background –**

For several years some administrations have provided authorizations to operate ESVs under RR S4.4 (non-interference basis) at ports, in territorial waters, and outside of territorial waters to a distance beyond which no coordination with terrestrial services is required. This has occurred even though the ship on which the ESV is located does not necessarily carry the flag of the administration that could receive interference.

WRC-2000 established provisions in Resolution 82 relating to ESVs operating in FSS networks in the bands 3.7-4.2 GHz and 5.925-6.425 GHz. In Resolution 82 provisional guidelines are included for use by administrations licensing ESVs and those affected in the establishment of bilateral or multilateral agreements. Resolution 82 also notes that ESVs may operate under RR S4.4 in the absence of such agreements. Furthermore, Resolution 82 calls on the ITU-R to conduct several studies including methods for coordination (with terrestrial services), the minimum coordination distance and mitigation techniques including dual-band systems (operation in a band without terrestrial services such as 14 GHz) to avoid detailed coordination.

The CITEL-PCC-III has adopted Resolution 108 calling on member countries to address the ESV guidelines in Resolution 82 (WRC-2000).

Several actions are now underway in ITU-R study groups to develop recommendations related to this agenda item. These include:

- a. In Working Party 4A a recommendation is being developed on the Characteristics of ESVs.

- b. In Joint Working Party 4-9S several recommendations are being developed on methods to be used for achieving coordination with fixed stations when ESVs are in motion near the shore, including definition of a distance beyond which no coordination is necessary.

**Preliminary View**

The United States supports the current activity within the ITU-R to develop recommendations that can be used by administrations seeking to introduce earth stations on board vessels and to protect the existing services operating in accordance with the RRs. The United States believes that these recommendations can serve as the basis for reaching bilateral or multilateral agreements between the concerned administrations, recognizing the primacy of the radio services that are currently allocated in the bands under consideration.