

**INTERNATIONAL TELECOMMUNICATION UNION**

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**PLENARY MEETING**

**Document XXXX-E**  
**31 July 2015**  
**Original: English**

**Member States of the Inter-American Telecommunication Commission (CITEL)**

**PROPOSALS FOR THE WORK OF THE CONFERENCE**

**Agenda item 10**

10 to recommend to the Council items for inclusion in the agenda for the next WRC, and to give its views on the preliminary agenda for the subsequent conference and on possible agenda items for future conferences, in accordance with Article 7 of the Convention,

## Background

The frequency band 12.75-13.25 GHz is currently allocated on a primary basis to the fixed, mobile and fixed-satellite (Earth-to-space)<sup>1</sup> services, and on a secondary basis to the space research (deep space) (space-to-Earth) services.

Currently, satellite networks operating in this frequency band can provide services to earth stations while in motion only under No. **4.4**, which requires the associated transmissions not to cause harmful interference to, and not to claim protection from harmful interference caused by, a station operating according to primary or secondary frequency allocations.

On the other hand, WRC-03 adopted regulatory provisions to allow operation of aircraft earth stations in the FSS in frequency band 14.0-14.5 GHz (Earth-to-space), where the same types of services with current allocation in the frequency band 12.75-13.25 GHz also operate.

Given the similarity of the services allocated in both frequency bands, it is proposed to study the viability of allowing the operation of earth stations on aircraft in the FSS in the 12.75-13.25 GHz (Earth-to-space) frequency band, with the aim of developing regulatory means and associated conditions for this type of application.

## Proposals

**SUP**      **USA/10(ESOA)/1**

### RESOLUTION 808 (WRC-12)

#### **Preliminary agenda for the 2018 World Radiocommunication Conference**

The World Radiocommunication Conference (Geneva, 2012),

#### **Reasons:**

**ADD**      **USA/10(ESOA)/2**

### DRAFT NEW RESOLUTION [USA-2019]

#### **Agenda for the 2019 World Radiocommunication Conference**

The World Radiocommunication Conference (Geneva, 2015),

*considering*

*a)*      that, in accordance with No. 118 of the ITU Convention, the general scope of the agenda for a world radiocommunication conference should be established four to six years in advance and that a final agenda shall be established by the Council two years before the conference;

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<sup>1</sup> The use of the band 12.75-13.25 GHz (Earth-to-space) by geostationary-satellite systems in the fixed-satellite service is in accordance with the provisions of Appendix **30B** according to No. **5.441**.

b) Article 13 of the ITU Constitution relating to the competence and scheduling of world radiocommunication conferences and Article 7 of the Convention relating to their agendas;

c) the relevant resolutions and recommendations of previous world administrative radio conferences (WARCs) and world radiocommunication conferences (WRCs),

*recognizing*

a) that WRC-15 has identified a number of urgent issues requiring further examination by WRC-19;

b) that, in preparing this agenda, some items proposed by administrations could not be included and have had to be deferred to future conference agendas,

*resolves*

to recommend to the Council that a world radiocommunication conference be held in 2019 for a maximum period of four weeks, with the following agenda:

1 on the basis of proposals from administrations, taking account of the results of WRC-15 and the Report of the Conference Preparatory Meeting, and with due regard to the requirements of existing and future services in the bands under consideration, to consider and take appropriate action in respect of the following items:

1. [esoa] To develop regulatory means and associated conditions to allow the operation of earth stations on aircraft in the FSS in the frequency band 12.75-13.25 GHz (Earth-to-space) in accordance with Resolution [USA/10/FSS 12.75-13.25 GHZ] (WRC-15).

2 to examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with Resolution 28 (Rev.WRC-03), and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in Annex 1 to Resolution 27 (Rev.WRC-12);

3 to consider such consequential changes and amendments to the Radio Regulations as may be necessitated by the decisions of the Conference;

4 in accordance with Resolution 95 (Rev.WRC-07), to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation;

5 to review, and take appropriate action on, the Report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the Convention;

6 to identify those items requiring urgent action by the Radiocommunication Study Groups in preparation for the next world radiocommunication conference;

7 to consider possible changes, and other options, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, an advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution 86 (Rev.WRC-07) to facilitate rational, efficient, and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit;

8 to consider and take appropriate action on requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required, taking into account Resolution 26 (Rev.WRC-07);

9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention:

- 9.1 on the activities of the Radiocommunication Sector since WRC-15;
- 9.2 on any difficulties or inconsistencies encountered in the application of the Radio Regulations; and
- 9.3 on action in response to Resolution **80 (Rev.WRC-07)**;
- 10 to recommend to the Council items for inclusion in the agenda for the next WRC, and to give its views on the preliminary agenda for the subsequent conference and on possible agenda items for future conferences, in accordance with Article 7 of the Convention,

*resolves further*

to activate the Conference Preparatory Meeting,

*invites the Council*

to finalize the agenda and arrange for the convening of WRC-15, and to initiate as soon as possible the necessary consultations with Member States,

*instructs the Director of the Radiocommunication Bureau*

to make the necessary arrangements to convene meetings of the Conference Preparatory Meeting and to prepare a report to WRC-19,

*instructs the Secretary-General*

to communicate this Resolution to international and regional organizations concerned.

**Reasons:** To extend to the frequency band 12.75-13.25 GHz of the FSS the possibility to operate earth stations on aircraft as is currently the case in the 14.0-14.5 GHz frequency band.

**ADD USA/10(ESOA)/3**

## DRAFT NEW RESOLUTION [USA/10/FSS 12.75-13.25 GHZ] (WRC-15)

### **Possible operation of earth stations on aircraft in the FSS in the frequency band 12.75-13.25 GHz (Earth-to-space)**

The World Radiocommunication Conference (Geneva, 2015),

*considering*

- a)* that the frequency band 12.75-13.25 GHz is currently allocated on a primary basis to the fixed, mobile and fixed-satellite (Earth-to-space) services, and on a secondary basis to the space research (deep space) (space-to-Earth) services;
- b)* that fixed-satellite service (FSS) networks operating in this frequency band are also used for the provision of services to earth stations while in motion on a non-interference and non-protected basis, under No. **4.4**;
- c)* that it is desirable to extend to the FSS frequency band 12.75-13.25 GHz the possibility to operate earth stations on aircraft as is currently the case for the 14.0-14.5 GHz FSS frequency band;
- d)* that such operations should not jeopardize or cause harmful interference to currently allocated services or uses;

e) that the same types of services currently allocated in the frequency band 12.75-13.25 GHz also operate in the 14.0-14.5 GHz frequency band, where the effective use of services has been possible simultaneously with transmissions from earth stations on aircraft operating in the FSS,

*recognizing*

a) that FSS satellite networks operating in the 12.75-13.25 GHz frequency band can currently provide services to earth stations in motion only under No. **4.4**, which requires the associated transmissions not to cause harmful interference to, and not to claim protection from harmful interference caused by, a station operating according to primary or secondary frequency allocations;

b) that Nos. **5.504B** and **5.504C** establish conditions for operation of earth stations on aircraft in the FSS frequency band 14.0-14.5 GHz in accordance with No. **5.504A**;

c) that the use of the band 12.75-13.25 GHz (Earth-to-space) by geostationary-satellite systems in the fixed-satellite service is in accordance with the provisions of Appendix **30B** according to No. **5.441**,

*resolves to invite ITU-R*

1 to carry out studies toward the development of regulatory means and associated conditions that allow the operation of earth stations on aircraft in the FSS in the frequency band 12.75-13.25 GHz (Earth-to-space) taking into account the current and planned use of these bands by the existing services;

2 to complete studies in time for WRC-19,

*resolves to invite WRC-19*

to review the results of these studies with a view to adopt regulatory means and associated conditions that allow the operation of earth stations on aircraft in the FSS in the frequency band 12.75-13.25 GHz (Earth-to-space),

*invites administrations*

to participate actively in the studies by submitting contributions to ITU-R.

**Reasons:** To extend to the frequency band 12.75-13.25 GHz of the FSS the possibility to operate earth stations on aircraft as is currently the case in the 14.0-14.5 GHz frequency band.

**ATTACHMENT**

**PROPOSAL FOR AN ADDITIONAL AGENDA ITEM AIMING AT DEVELOPING REGULATORY MEANS AND ASSOCIATED CONDITIONS THAT ALLOW THE OPERATION OF EARTH STATIONS ON AIRCRAFT IN THE FSS IN THE FREQUENCY BAND 12.75-13.25 GHZ (EARTH-TO-SPACE)**

**Subject:** Proposal for an Agenda Item for WRC-19 aiming at developing regulatory means and associated conditions that allow the operation of earth stations on aircraft in the FSS in the frequency band 12.75-13.25 GHz (Earth-to-space)

**Origin:** United States of America

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**Proposal:** *To develop regulatory means and associated conditions that allow the operation of earth stations on aircraft in the FSS in the frequency band 12.75-13.25 GHz in accordance with Resolution [USA/10/FSS 12.75-13.25 GHz] (WRC-15).*

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**Background/reason:** According to the provisions of the Radio Regulations, FSS satellite networks operating in the 12.75-13.25 GHz frequency band can currently provide services to earth stations in motion only under No. 4.4. This provision requires the associated transmissions not to cause harmful interference to, and not to claim protection from harmful interference caused by, a station operating according to primary or secondary frequency allocations. On the other hand, WRC-03 adopted regulatory provisions that allow operation of earth stations on aircraft in the FSS in frequency band 14.0-14.5 GHz (Earth-to-space), where the same types of services with current allocation in the frequency band 12.75-13.25 GHz also operate. It may therefore be feasible to extend to the FSS frequency band 12.75-13.25 GHz (Earth-to-space) the possibility to operate earth stations on aircraft as is currently the case for the 14.0-14.5 GHz FSS frequency band, which would allow more capacity for the provision of such services with additional regulatory certainty.

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**Radiocommunication services concerned:** FSS, FS, MS and SRS (deep space)

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**Indication of possible difficulties:** None foreseen

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**Previous/ongoing studies on the issue:** Previous WRCs addressed similar issues in the 14.0-14.5 GHz band.

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<b>Studies to be carried out by:</b> SG4	<b>with the participation of:</b>
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***ITU-R Study Groups concerned:*** SG4, SG5 and SG7

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***ITU resource implications, including financial implications (refer to CVI26):*** Minimal

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***Common regional proposal:*** Yes/No

***Multicountry proposal:*** Yes/No

***Number of countries:***

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***Remarks***