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| U.S. Radiocommunications SectorFact Sheet |
| **Working Party:** ITU-R WP-5B | **Document No:** USWP5B35-17 |
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| **Document Title:** Proposed text for the CPM text on agenda item 1.9 |
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| **Purpose/Objective:** The purpose of this paper is to begin drafting the CPM text for Agenda Item 1.9, in accordance with Resolution **411 (WRC-23)**.  |
| **Abstract:** Working Party 5B is the responsible Working Party for reviewing Appendix 26 in accordance with Resolution **411 (WRC-23)** and developing draft CPM text. To date, WP 5B has initiated a Working Document towards a Preliminary Draft New Report for modernization of HF AM(OR)S. This paper will propose an initial framework and edits to the draft CPM text for Agenda Item 1.9.  |

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| Proposed text for the CPM text on agenda item 1.9 |

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The United States proposes the following Attachment be considered for the development of Draft CPM text for Agenda Item 1.9.

**Attachment:** 1

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| ATTACHMENT |
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| Proposed text for the CPM text on agenda item 1.9 |

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**CHAPTER 2**

**Fixed, mobile and radiolocation issues**

(Agenda items 1.7, 1.8, 1.9, 1.10)

Agenda item 1.9

(**WP 5B / WP 3L, WP 5C, WP 6A, WP 7A**)

*1.9 to consider appropriate regulatory actions to update Appendix****26*** *to the Radio Regulations in support of aeronautical mobile (OR) high frequency modernization, in accordance with Resolution****411*** *(****WRC‑23)****;*

Resolution **411 (WRC-23)** – *Consideration of appropriate regulatory actions to update Appendix****26*** *in support of modernization of high-frequency spectrum use in the aeronautical mobile (OR) service*

**2/1.9/1 Executive summary**

To address this agenda item, ITU-R has undertaken a regulatory analysis, pursuant to Resolution **411 (WRC-23)**, on consideration of regulatory provisions for updating Appendix **26** of the Radio Regulations (RR) in support of aeronautical (OR) HF modernization.

Two methods are considered to address this agenda item:

– Method A: no change (NOC);

– Method B: inclusion into RR Appendix **26**, the explicit recognition of the aggregation of single contiguous and non-contiguous channels for wideband digital communications.

**2/1.9/2 Background**

The High Frequency (HF) band has been identified as an effective alternative to provide much-needed integrated and interoperable Beyond-Line-of-Sight (BLOS) communications capabilities. HF is also a critical and affordable option for global broadcasting and amateur radio, and an alternative when other communications services are unavailable due to natural disasters or other national emergencies. The challenge with meeting the growing requirement for modern HF is the need for the increased bandwidth allocations. These allocations would be required to achieve higher data rates and improved voice quality communications while not impeding the legacy frequency needs of incumbent users, groups, or countries. Appendix **26** of the ITU Radio Regulations limits Aeronautical Mobile (OR) Service (AM(OR)S) to a maximum bandwidth of 2.8 kHz.

There are modern wideband HF (WBHF) technologies available that enable the flexibility to use wider channel bandwidths within advanced digital HF. This includes enhanced applications that can support a shared environment while also maximizing spectrum efficiency. Current wideband technology and methodologies are available that automate the negotiating of the Radio Frequency (RF) environment while mitigating any harmful interference to users in, or adjacent to, a desired HF frequency range.

WRC-23 through Resolution **411** (**WRC-23**) resolves to invite the Radiocommunication Sector to review Appendix **26** of the Radio Regulations and consider necessary changes, as appropriate, to Appendix **26**, on the basis of studies without modifying the existing area allotments, and while taking into account that the current use of the narrowband systems shall remain unchanged and shall not be impacted nor precluded by the revision of Appendix **26**.

**2/1.9/3 Summary and analysis of the results of ITU‑R studies**

*[Summary of the technical and operational studies, including a list of relevant ITU-R Recommendations, and analysis of the results of studies relating to the possible methods of satisfying the agenda item (see §§  A2.3, A2.5 and A2.6 of Annex 2 to* [*Resolution ITU-R 2-9*](http://www.itu.int/pub/R-RES-R.2-9-2023)*)]*

*TBD***2/1.9/4 Methods to satisfy the agenda item**

**2/1.9/4.1 Method A: No change**

It may be considered that the current version of RR Appendix **26** does not preclude the wideband digital HF communication for the relevant type of classes. In this method, the suppression of Resolution **411 (WRC-23)** is also proposed.

**2/1.9/4.2 Method B: Inclusion into RR Appendix 26, the explicit recognition of the aggregation of single channels for wideband digital communications**

This agenda item could be the opportunity to include appropriate language in Appendix 26 for the use of wideband digital emissions. Although aggregation of carriers could be considered, this method proposes to explicitly recognize the possibility to aggregate single channels to benefit from wideband digital communications without modifying the existing Plan. In this method, the suppression of Resolution **411 (WRC-23)** is also proposed.

**2/1.9/5 Regulatory and procedural considerations**

2/1.9/5.1 Method A:

NOC to Appendix 26

2/1.9/5.2 Method B:

MOD Appendix 26 26/3.6:

 The channelling arrangement specified in No. **26**/3.1 does not prejudice the rights of administrations to establish, and to notify assignments to stations in the aeronautical mobile (OR) service other than those using radiotelephony, provided that:

– channel bandwidth does not exceed 2.8 for legacy systems

 For non-contiguous aggregation channel bandwidth does not exceed 2.8 kHz (within a 200 kHz bandwidth)

 For contiguous aggregation occupied bandwidths of 6 to 48 kHz can be implemented using currently allotted frequency channels

;– the limits of unwanted emission are met (see Appendix **27**, No. **27**/74).     (WRC‑2000)

 Individual contiguous channels complying with the provisions of Appendix 26 5/2 may be aggregated to provide wideband communication without changing the plan of individual channels.

2/1.9/5.3

SUP RESOLUTION 411 (WRC-23)