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| **U.S. Radiocommunications Sector****Fact Sheet** |
| **Working Party:** ITU-R WP 5C  | **Document No:** USWP 5C 31-01 |
| **Ref:** WRC-27 Agenda Item 1.9 – Resolution 411 (WRC-23) | **Date:** 7/30/2024 |
| **Document Title:** Working Party 5C reply to Working Party 5B Liaison Statement on WRC-27 Agenda Item 1.9 – Update of Appendix 26 |
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| **Purpose/Objective:** This is a Fact Sheet for the reply from WP-5C to WP-5B’s liaison statement for Agenda Item 1.9 |
| **Abstract****:** This document contains the references WP-5B should use when determining methodology and performing studies to determine potential interference with incumbents in the 3025 – 18030 kHz band under the purview of WP-5C.. |

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| **Radiocommunication Study Groups** |  |
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| **English only** |
| Working Party 5C |
| REPLY LIAISON STATEMENT TO WORKING PARTY 5B |
| Information for studies on WRC-27 agenda item 1.9  |

Working Party (WP) 5C thanks WP 5B for its liaison statement (Doc.5C/70) requesting any relevant information for the work of WP 5B to review Appendix **26** of the Radio Regulations to accommodate digital aeronautical HF technologies for the AM(OR)S between 3025 and 18 030 kHz in accordance with Resolution 411 **(WRC-23)**.

WP 5C has currently identified the following ITU-R Recommendations under the purview of WP 5C. These are the most relevant documents that are applicable to the frequency range 3025 - 18030 kHz:

– Recommendation ITU-R F.1761 “Characteristics of HF fixed radiocommunication systems”

– Recommendation ITU-R F.1762 “Characteristics of enhanced applications for high frequency (HF) radiocommunication systems”

– Recommendation ITU-R F.1821 “Characteristics of advanced digital high frequency (HF) radiocommunication systems”

The following Recommendations and Reports may also be used in determining methodology and

performing studies:

 Recommendation ITU-R F.106 “The use of diversity for voice-frequency telegraphy on HF radio circuits”

– Recommendation ITU-R F.339 “Bandwidths, signal-to-noise ratios and fading allowances in HF fixed and land mobile radiocommunication systems”

– Recommendation ITU-R F.454 “Pilot carrier level for HF single-sideband and independent-sideband reduced-carrier systems”

– Recommendation ITU-R F.612 “Measurement of reciprocal mixing in HF communication receivers in the fixed service”

– Recommendation ITU-R F.763 “Data transmission over HF circuits using phase shift keying or quadrature amplitude modulation”

– Recommendation ITU-R F.1111 “Improved Lincompex system for HF radiotelephone circuits”

– Recommendation ITU-R F.1192 “Traffic capacity of automatically controlled radio systems and networks in the HF fixed service”

– Recommendation ITU-R F.1337 “Frequency management of adaptive HF radio systems and networks using FMCW oblique-incidence sounding”

– Recommendation ITU-R F.1487 “Testing of HF modems with bandwidths of up to about 12 kHz using ionospheric channel simulators”

– Recommendation ITU-R F.1610 “Planning, design and implementation of HF fixed service radio systems”

– Recommendation ITU-R F.1611 “Prediction methods for adaptive HF system planning and operation”

– Recommendation ITU-R F.1778 “Channel access requirements for HF adaptive systems in the fixed and land mobile services”

– Report ITU-R F.2061 “HF fixed radiocommunications systems”

– Report ITU-R F.2087 “Requirements for high frequency (HF) radiocommunication systems in the fixed service”

– Report ITU-R F.2484 “Cooperative frequency competition model and the corresponding algorithms and protocols for improving the HF sky-wave electromagnetic environment”.

If WP 5B has any questions with regards to the use of these documents in their studies under agenda item 1.9, WP 5C would be happy to provide additional advice.

WP 5C looks forward to further collaboration on this agenda item with WP 5B.

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| **Status:** For information  |
| **Contact:**  | **E-mail:**  |

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