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| U.S. Radiocommunications Sector  Fact Sheet | |
| **Working Party:** ITU-R WP-5B | **Document No:** USWP5B29-ZZ-FS |
| **Ref:** Annex 34 to Document 5B/481-E | **Date:** 28 April 2022 |
| **Document Title:** WORKING DOCUMENT TOWARDS A HANDBOOK ON UNMANNED AIRCRAFT DETECT AND AVOID SYSTEMS [HDBK.UAS\_DAA] - Guidance on suitable frequency bands and services to be used by airborne unmanned aircraft detect-and-avoid non-cooperative systems | |
| **Author(s)/Contributors(s):**  Don Nellis  Federal Aviation Administration  800 Independence Ave., S.W.  Washington, DC 20591  Mohammed Rahman  Federal Aviation Administration  800 Independence Ave., S.W.  Washington, DC 20591 | Phone: (202) 267-9779  e-mail: Donald.Nellis@faa.gov  Phone: (202) 267-6573  e-mail: Mohammed.Rahman@faa.gov |
| **Purpose/Objective:** The purpose of this contribution is to further developmental of the handbook that would provide information on appropriate frequency bands for Detect and Avoid (DAA) radar systems installed on unmanned aircraft or for ground DAA radar systems to support unmanned aircraft operations. | |
| **Abstract:** This contribution will continue the process of developing a handbook to supplement ITU-R Report M.2204-0 to identify the use of appropriate frequency bands for DAA radar systems on board aircraft and on the ground. This handbook will replace earlier effort of continue the process of drafting a new report for Detect and Avoid radar systems installed on unmanned aircraft and on the ground found in Annex 32 and 33 of the Chairman’s Report of the November 2020 WP-5B meeting. The initial efforts of developing these two documents explored various frequency bands to populate Section 5 (Spectrum analysis on suitability for detect and avoid system onboard unmanned aircraft) and the Summary Table in Section 6 are best suited for handbook. This new handbook will explore the list of frequency bands allocated to the Aeronautical Radionavigation and Radionavigation Services, which could be used for Detect and Avoid radar systems installed on unmanned aircraft and at the ground. The handbook will also provide information on other systems and services in these bands, coexistence issues, and an evaluation of the suitability of the band for UAS Detect and Avoid radar systems. This handbook will ultimately supplement Chapter 4, Spectrum considerations for UAS sense and avoid system of the Report ITU-R M.2204-0 (11/2010).  This contribution will be an update to the new report found in Annex 34 of the Chairman’s Report of the 23 December 2021 Document 5B/481E virtual meeting. | |