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| U.S. Radiocommunications Sector  Fact Sheet | |
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| **Ref:** Resolutions 155 and 171  Document [5B/427](http://www.itu.int/md/R19-WP5B-C-0427/en) | **Date:** 23 Feb 2022 |
| **Document Title:** SUMMARY OF ADMINISTRATION RESPONSIBILITIES IN SUPPORT OF STUDIES UNDER WRC-23 AGENDA ITEM 1.8 | |
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| **Purpose/Objective:** The purpose of this contribution is summarize the administration responsibilities and how they are proposed to be implemented in a revision of Resolution 155 (Rev.WRC-19) being considered under WRC-23 agenda item 1.8. | |
| **Abstract:** Under Resolution 171 (WRC-19) for WRC-23 Agenda Item 1.8, WP 5B is required to complete, in time for WRC-23, relevant studies of the regulatory aspects in relation to the implementation of Resolution 155 (Rev.WRC-19). It is also required to review Resolution 155 (Rev.WRC-19) taking into account the results of those studies. This contribution summarizes the administration responsibilities and how they are being implemented in a revision of Resolution 155. | |

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| **Radiocommunication Study Groups** |  |
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| Received: XX March 2022  Source: Resolution **155 (Rev.WRC-19)** Resolution **171 (WRC-19)** Document [5B/427](https://www.itu.int/md/R19-WP5B-C-0427/en) | **Document 5B/XXX-E** |
| **XX March 2022** |
| **English only** |
| United States of America | |
| WORKING DOCUMENT TOWARD REGULATORY STUDIES UNDER WRC-23 AGENDA ITEM 1.8 | |
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# 1 Introduction and proposals

Based on the discussions in Working Party (WP) 5B and the Correspondence Group, the United States submitted an example revision (See Document [5B/427](https://www.itu.int/md/R19-WP5B-C-0427/en)) of Resolution **155 (Rev.WRC-19)** to WP 5B. WP 5B has been discussing the roles and responsibilities that administrations have for each of the radio communication services that are affected by operating CNPC links using earth stations on unmanned aircraft. Using Document [5B/427](https://www.itu.int/md/R19-WP5B-C-0427/en), the United States prepared the attached contribution for WP 5B to consider how those responsibilities could be implemented.

**Attachment:** 1

Attachment

## 1 Introduction

Under WRC-23 agenda item 1.8, WP 5B is studying the regulatory issues for an unmanned aircraft system (UAS) using a geostationary satellite operating under a fixed-satellite service (FSS) allocation. The unmanned aircraft (UA) has an earth station on-board to interconnect the control and non-payload communication (CNPC) link between this UA and associated remote earth station, called "unmanned aircraft control station” (UACS).

There are unique responsibilities for a number of administrations involved including the notifying administration of the satellite network that contains the CNPC UA ES, notifying administration of other satellite networks, the flag nation of the aircraft, the administration and the adjacent administrations of where the UAS CNPC ES operations are conducted, and the administration for where the ground feeder link earth station for the UACS is located. These administrations have responsibilities relating to the operation of the space station, the UAS CNPC ES, impacted terrestrial services, and UACS feeder link Earth Station.

## 2 Discussion

Table 1 provides one approach to summarizing actions that each administration has towards addressing interference, satisfying ICAO SARPS, and obtaining regulatory authority. For each entry in the table, a reference to the related resolves in Document [5B/427](https://www.itu.int/md/R19-WP5B-C-0427/en) is provided in parentheses.

## 3 Conclusion

Administrations have various regulatory responsibilities to ensuring safe operation of a UAS CNPC ES. Consideration and agreement in WP 5B on each entry that applies to ITU-R members in the table provides a basis for modifying Resolution **155 (Rev.WRC-19)** that can provide clarity to the obligations for the operation of UAS CNPC ES and protection of other services.

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