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| A close up of a sign  Description automatically generated | **World Radiocommunication Conference (WRC-23)Dubai, 20 November - 15 December 2023** |  |
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| PLENARY MEETING | **Addendum 4 toDocument 111(Add.24)-E** |
|  | **29 October 2023** |
|  | **Original: Chinese** |
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| China (People's Republic of) |
| PROPOSALS FOR THE WORK OF THE CONFERENCE |
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| Agenda item 9.1(9.1-d) |

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

9.1 on the activities of the ITU Radiocommunication Sector since WRC‑19:

(9.1-d) Protection of EESS (passive) in the frequency band 36-37 GHz from non-GSO FSS space stations

Introduction

On the basis of studies connected to WRC-19 agenda item 1.6, a preliminary study report on the protection of EESS (passive) sensors operating in the 36-37 GHz band was submitted to ITU-R. WRC-19 invited ITU-R to continue its studies of this topic, develop Recommendations and/or Reports, report back to WRC-23, and take action if necessary.

The two topics under study are:

• Interference into the EESS sensing channel from constellations operating at altitudes lower than the EESS satellites altitude.

• Interference into the EESS calibration channel from constellations operating at altitudes higher than the EESS satellite altitude.

The frequency band 36-37 GHz is important for passive microwave remote sensing by meteorological satellites, and it is also the radiometric window for detecting temperature profiles, cloud liquid water, snow and lake ice morphology.

Proposal

 CHN/111A24A4/1

China supports to limit the maximum e.i.r.p. level of unwanted emissions of FSS space stations by WRC-23 in order to ensure the protection of EESS (passive) sensors operating in the frequency band 36-37 GHz from harmful interference caused by non-GSO FSS space stations operating in the frequency band 37.5-38 GHz, according to the study results of ITU‑R.

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