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|  |  CPG15(14)017 Annex IV-14 |
| CPG15-4  |  |
| Riga, Latvia 25th - 28th March 2014 |  |
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| Date issued:  | 30th March 2014 |
| Source:  | CPG15-4 |
| Subject:  | Draft CEPT Brief on WRC-15 Agenda Item 1.13 |
|  |
| Summary:  |
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| Proposal: |
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DRAFT CEPT BRIEF ON AGENDA ITEM 1.13

1.13 to review No. 5.268 with a view to examining the possibility for increasing the 5 km distance limitation and allowing space research service (space-to-space) use for proximity operations by space vehicles communicating with an orbiting manned space vehicle, in accordance with Resolution 652 (WRC 12);

# ISSUE

Resolution 652 (WRC-12) resolves to invite WRC-15 to review No. 5.268, taking into account the results of ITU-R studies, including the possible removal or relaxation of the 5 km distance limitation without modifying the current pfd limits.

Furthermore WRC-15 is invited to allow a more general use of the 410-420 MHz band for SRS (space-to-space) systems beyond extra-vehicular activities.

# Preliminary CEPT position

CEPT support removal of the distance limitation within RR No 5.268 and the restriction to the extra vehicular activities while keeping the pfd limit at the Earth’s surface.

# Background

Resolution 652 (WRC-12) invites ITU-R to conduct sharing studies between SRS (space-to-space) systems communicating in the proximity of orbiting manned space vehicles and systems operating in the fixed and mobile (except aeronautical mobile) services in the band 410-420 MHz.

It also stated clearly in the resolves to invite WRC-15 that a possible removal or relaxation of the 5 km distance limitation has to be made without modifying the current pfd limits.

Furthermore WRC-15 has to decide to allow a more general use of the 410-420 MHz band for SRS (space-to-space) systems beyond extra-vehicular activities.

# List of relevant documents

* ITU-R Reports:

SA.2162 – “Frequency sharing between space research service extra-vehicular activity (EVA) links and fixed and mobile service links in the 410-420 MHz band”

ITU-R Recommendations:

SA.609-2 – “Protection criteria for radiocommunication links for manned and unmanned near-Earth research satellites”

Annex 14 to document/88 (Working Party 7B Chairman's Report)

Annex 1 to document/88 (Working Party 7B Chairman’s Report)

Annex 04 to document/154 (Working Party 7B Chairman’s Report) - Draft CPM text for WRC-15 Agenda item 1.13 - Agenda item 1.13 (WP 7B / WP 5A, WP 5C).

# Actions to be taken

* Analyse the Studies from ITU-R and take the appropriate decision.

# Relevant information from outside CEPT (examples of these are below)

## European Union (date of proposal)

## Regional telecommunication organisations:

APT (07/2013)

APT supports ITU-R studies on removal of the 5 km distance limitation from RR No 5.268 which would allow space research service (space-to-space) enhanced flexibility and safety for proximity operations by space vehicles communicating with an orbiting manned space vehicle, on condition that by removal of the distance limitation the current pfd limits included in RR No. 5.268 be maintained to assure continued protection of the fixed and mobile (except aeronautical) services in the band 410-420 MHz.

ATU (date of proposal)

Arab Group (date of proposal)

CITEL (01/2013)Canada and United States Support the removal of both the 5 km distance limitation and restriction to EVA operation if the studies performed in accordance with Resolution 652 (WRC-12), demonstrate that space vehicle links operating around a manned vehicle beyond 5 km can meet the pfd limits in No. 5.268. Removal of these two restrictions will allow for greater flexibility in using the band 410-420 MHz for space research activities while maintaining protection of the terrestrial services

09/2013

US support modification of RR No. 5.268 to remove 5km distance separation limit, and remove reference to “extra-vehicular activities.” and suppression of associated Resolution 652 (WRC-12)

RCC (12/2013)

The RCC Administrations support the removal of 5 km distance limitation in RR No. 5.268 and the extension of use for the SRS (space-to-space) for proximity operations by space vehicles while maintaining the power flux density limit at the Earth's surface in the frequency band 410-420 MHz in RR No. 5.268.

## International organisations

IATA

ICAO

IMO

NATO (01/2014)

There is no specific military interest for this Agenda Item.

SFCG (01/2013)

SFCG supports removing the 5 km distance limitation and allowing space research service (space-to-space) use for proximity operations by space vehicles communicating with an orbiting manned space vehicle.

WMO

## OTHER INTERNATIONAL AND REGIONAL ORGANISATIONS

ESA

ESA has the same position as SFCG

EUMETNET (01/2013)

No position

Eurocontrol

CRAF (01/2013)

No position

## OTHER INTERNATIONAL AND REGIONAL ORGANISATIONS

EBU (date of proposal)

GSMA (date of proposal