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|  | | CPG15(15)084 Annex IV-14 |
| Norway, Bergen, 14th - 18th September 2015 | | |  |
|  | | |  |
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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.

# 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”.
* SA.2271 – “Sharing conditions between space research service proximity operations 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”

# Actions to be taken

none

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

## European Union (date of proposal)

## Regional telecommunication organisations:

APT (07/2015)

APT Members support the single Method in the CPM Report for agenda item 1.13 and a Preliminary APT Common Proposal (PACP) is accordingly provided below.

ATU (07/2015)

ATU supports the removal of the 5 km distance limitation and maintaining the PFD limits in RR No. 5.268.

Arab Group (08/2015)

Support the only CPM method to remove the 5 km distance limitation.

ACP: MOD RR Article 5

CITEL (09/2015)

Inter-American Proposals (Single Method)

MOD No. 5.268 to remove 5 km distance separation limit, and remove reference to “extra-vehicular activities”

SUP Resolution 652 (WRC-12)

RCC (04/2015)

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 (08/2015)

SFCG supports removing the 5 km distance limitation and explicitly allowing space research service (space-to-space) use for proximity operations by space vehicles communicating with an orbiting manned space vehicle. SFCG objectives are met by the single method included in the CPM Report to satisfy this agenda item.

## OTHER INTERNATIONAL AND REGIONAL ORGANISATIONS

ESA (09/2015)

Supports SFCG positions

Eurocontrol

CRAF (09/2015)

No position

## OTHER INTERNATIONAL AND REGIONAL ORGANISATIONS

EBU (date of proposal)

GSMA (date of proposal