**Report of the Agenda Item Coordinator during WRC-19**

Wang Xiaodong , wxd@srrc.org.cn

Report Date: 2019.11.07

1. **Agenda Item**

*Agenda item 1.2 is to consider in-band power limits for earth stations operating in the mobile-satellite service, meteorological-satellite service and Earth exploration-satellite service in the frequency bands 401-403 MHz and 399.9-400.05 MHz, in accordance with Resolution 765 (WRC-15);*

1. **APT Common Proposals and APT Views for WRC-19 (which has been submitted to WRC-19)**

APT supports **Method C** and **Method E in CPM report** for the frequency bands 399.9-400.05 MHz and 401-403 MHz respectively.

1. **Topics proposed by other regional Groups or ITU Members which are not included in no. 2 above**

|  |  |  |
| --- | --- | --- |
|  | 399.9-400.05 MHz | 401-403 MHz |
| CITEL | New method. Introduce in-band power limit only in 399.9-399.99MHz, apply after 22 November 2029. | Approximately method E.Without limit in 4kHz and apply after 22 November 2029. |
| RCC | Method C.  | Method E. Apply after 22 November 2027. |
| CEPT | Method C.  | Method E Apply after 22 November 2027. |
| ATU | Change to Method C from No change | Approximately method E. not apply to TT&C even after 22 November 2029 |
| ASMG | Method C | Method E |
| CHN | Method C | Method E |
| J | - | Mehtod E, Apply after 22 November 2029. |
| AUS | Method C | - |
| India | Method C | Method E |
| Luxembourg | Supports in-band power limits, while maintaining filing original status when changing the limits. | - |
| Slovenia | Requests WRC-19 to exclude the NEMO-HD satellite network from the application of possible e.i.r.p. limits due to force majeure. |

1. **Progress of discussion during WRC-19 on the Agenda Item**

After two meetings and two informal offline discussions between regional groups and concerned countries, the latest but not last footnotes version is approximately as following:

* **For the frequency band 399.9-400.05MHz**

The maximum e.i.r.p. of 5 dBW is introduced in any 4 kHz and in the whole band emission, exclude 400.02-400.05MHz for TT&C. The transitional period for apply is still undecided.

* **For the frequency band 401-403MHz**

Almost achieved the agreement on method E. The transitional period for apply is still undecided.

1. **Issues which require discussion at APT Coordination Meetings and seek guidance thereafter**

Here, I kindly ask APT members if it is possible to accept or have any difficulty with these new footnotes? Further discussion will be continued on AI 1.2 meeting in this afternoon.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The compromised footnote version is listed below for reference.

**For the frequency band 399.9-400.05MHz.**

ADD 5C1/A2/2

5.A12 In the frequency band 399.9-400.05 MHz, the maximum e.i.r.p. of any emission of the earth stations in the mobile-satellite service shall not exceed 5 dBW in any 4 kHz and the maximum e.i.r.p. of each earth station in the mobile-satellite service shall not exceed 5 dBW in the whole 399.9-400.05 MHz frequency band. Until 22 November [2022/2024/2029], this limit shall not apply to satellite systems for which complete notification information has been received by the Radiocommunication Bureau by 22 November 2019 and that have been brought into use by that date. After 22 November [2022/2024/2029] these limits shall apply to all systems within mobile-satellite service operating in this frequency band.

In the frequency band 399.99-400.02 MHz, the e.i.r.p. limits as specified above shall apply after 22 November [2022/2024] to all systems within the mobile-satellite service. Administrations are requested that their mobile-satellite service satellite links in399.99-400.02 MHz frequency band comply with the e.i.r.p. limits as specified above, commencing 22 November 2019.          (WRC‑19)

ADD 5C1/A2/3

5.B12 In the frequency band 400.02-400.05  MHz the provisions of **5.A12** are not applicable for telecommand uplinks within the mobile-satellite service.

**For the frequency band 401-403MHz**

ADD 5C1/12A2/4

5.C12 In the frequency band 401-403 MHz, the maximum e.i.r.p. of any emission of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 22 dBW in any 4 kHz for geostationary systems and non-geostationary systems with an orbit of apogee equal or greater than 35 786 km

The maximum e.i.r.p. of any emission of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 7 dBW in any 4 kHz for non-geostationary systems with an orbit of apogee lower than 35 786 km.

In this frequency band, maximum e.i.r.p. of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 22 dBW for geostationary systems and non-geostationary systems with an orbit of apogee equal or greater than 35 786 km in the whole 401-403 MHz frequency band. The maximum e.i.r.p. of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 7 dBW for non-geostationary systems with an orbit of apogee lower than 35 786 km in the whole 401-403 MHz frequency band.

Until 22 November [2027/2029], these limits shall not apply to satellite systems for which complete notification information has been received by the Radiocommunication Bureau by 22 November 2019 and that have been brought into use by that date. After 22 November [2027/2029] these limits shall apply to all systems within meteorological-satellite service and the Earth exploration-satellite service operating in this frequency band.    (WRC‑19)

ADD 5C1/A2/6

**5.D12**  Non-geostationary satellite systems in the meteorological-satellite service and the Earth exploration-satellite service, for which complete notification information has been received by the Radiocommunication Bureau before 28 April 2007 are exempt from provisions of 5.C12 and may continue to operate in the frequency band 401.898-402.522 MHz on a primary statusnot to with a maximum e.i.r.p. level of 12 dBW 12 dBW.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

*Note: Coordinators are encouraged to conduct informal consultation with interested APT Members on the issues/topics under no. 3 and inform the outcomes of consultation to the Coordination Meeting*. *Coordinators can also organize coordination meetings on the respective agenda items whenever necessary.*