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| **World Radiocommunication Conference (WRC-19)Sharm el-Sheikh, Egypt, 28 October – 22 November 2019** |  |
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| PLENARY MEETING | **Addendum 7 toDocument 80-E** |
|  | **7 October 2019** |
|  | **Original: English** |
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| Japan |
| PROPOSALS FOR THE WORK OF THE CONFERENCE |
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| Agenda item 1.7 |

1.7 to study the spectrum needs for telemetry, tracking and command in the space operation service for non-GSO satellites with short duration missions, to assess the suitability of existing allocations to the space operation service and, if necessary, to consider new allocations, in accordance with Resolution **659 (WRC-15)**;

Background

This agenda item is to consider the results of ITU-R studies and take necessary action, as appropriate. Resolution **659 (WRC-15)** provides these ITU-R studies and the course of action as follows:

– to study the spectrum requirements for telemetry, tracking and command in the space operation service (SOS) for the growing number of non-GSO satellites with short duration missions, taking into account RR No. **1.23**; and

– to assess the suitability of existing allocations to the space operation service in the frequency range below 1 GHz, taking into account current use and that the existing allocations to the space operation service below 1 GHz, where RR No. **9.21** applies, are not suitable for non-GSO satellites with short duration missions;

– if studies of the current allocations to the space operations service indicate that requirements cannot be met under the above two indents, to conduct sharing and compatibility studies, and study mitigation techniques to protect the incumbent services, both in-band as well as in adjacent bands, in order to consider possible new allocations or an upgrade of the existing allocations to the space operation service within the frequency ranges 150.05-174 MHz and 400.15‑420 MHz.

At APG19-5 held in July-August 2019, APT members did not reach an agreement to develop specific proposed regulatory text for agenda item 1.7. The APT common proposal (ACP) describes only views of each APT member which the main support from APT members is for Method A and Method C, with a preference for Method C with conditions, and some APT members do not support Method C.

Proposal

Japan does not support Method B1 and Method B2, since studies of Report ITU-R SA.2427-0 indicate that it is possible for telemetry, tracking and telecommand in the space operation service for non-GSO satellites with short duration missions to share the existing meteorological aids service, only under the limited condition.

With regard to Method C, sharing and compatibility studies between the telemetry, tracking and telecommand in the space operation service for non-GSO satellites with short duration missions and incumbent services has not been completed. In addition, working document towards a preliminary draft new Report ITU-R SA.[NGSO SD VHF COMPATIBILITY] about compatibility with aeronautical mobile (route) service including VDL (VHF Digital Link) system using adjacent band is under development in the frequency band 137-138 MHz. Furthermore, many radio stations of land mobile service have been operated in the frequency band 148-149.9 MHz in Japan.

Consequently, since there are concerns on sharing between tracking and telecommand in the space operation service for non-GSO satellites with short duration missions and incumbent services, Japan proposes Method A.

ARTICLE 5

Frequency allocations

NOC J/80A7/1#50210

Section IV – Table of Frequency Allocations
(See No. 2.1)

SUP J/80A7/2#50211

RESOLUTION 659 (WRC‑15)

Studies to accommodate requirements in the space operation service for
non-geostationary satellites with short duration missions

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