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| **World Radiocommunication Conference (WRC-19) Sharm el-Sheikh, Egypt, 28 October – 22 November 2019** |  |
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| PLENARY MEETING | **Document 571-E** |
|  | **16 December 2019** |
|  | **Original: English** |
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| MINUTES  OF THE  tenth plenary meeting |
| Wednesday, 20 November 2019, at 0905 hours |
| **Chairman:** Mr A. BADAWI (Egypt) |

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| --- | --- | --- |
|  | Subjects discussed | Documents |
| 1 | Oral reports by the committee chairmen and the chairmen of the ad hoc groups of the Plenary | - |
| 2 | Documents for approval | 499, 500,  509, 510, 518 |
| 3 | Thirty-seventh series of texts submitted by the Editorial Committee for first reading (B37) | 496 |
| 4 | Thirty-seventh series of texts submitted by the Editorial Committee (B37) – second reading | 496 |
| 5 | Thirty-eighth series of texts submitted by the Editorial Committee for first reading (B38) | 497 |
| 6 | Thirty-eighth series of texts submitted by the Editorial Committee (B38) – second reading | 497 |
| 7 | Thirty-ninth series of texts submitted by the Editorial Committee for first reading (B39) | 501 |
| 8 | Thirty-ninth series of texts submitted by the Editorial Committee (B39) – second reading | 501 |
| 9 | Fortieth series of texts submitted by the Editorial Committee for first reading (B40) | 502 |
| 10 | Fortieth series of texts submitted by the Editorial Committee (B40) – second reading | 499, 500, 502 |
| 11 | Forty-fifth series of texts submitted by the Editorial Committee for first reading (B45) | 507 |
| 12 | Forty-fifth series of texts submitted by the Editorial Committee (B45) – second reading | 507, 509 |
| 13 | Forty-sixth series of texts submitted by the Editorial Committee for first reading (B46) | 508, 510 |
| 14 | Third series of texts submitted by the Editorial Committee for second reading (R3) | 498 |
| 15 | General comments and organization of work | - |

# 1 Oral reports by the committee chairmen and the chairmen of the ad hoc groups of the Plenary

1.1 The **Chairman of Committee 2** reported that his committee had received and approved two new credentials since the previous plenary meeting and had updated its report accordingly. To date, the committee had received 139 credentials from the 163 Member States participating in the conference. It had also received one proxy and one transfer of powers.

1.2 The oral report by the Chairman of Committee 2 was **noted**.

1.3 The **Chairman of Committee 3** reported that his committee had received and considered two draft new resolutions and modifications to Nos. **9.36** and **9.53A** of the Radio Regulations, as well as to Appendices **30**, **30A** and **30B**. The committee had evaluated the financial implications of those changes and would present its findings to the Plenary in Document 337 (Rev.1).

1.4 The oral report by the Chairman of Committee 3 was **noted**.

1.5 The **Chairman of the Ad hoc Group of the Plenary 4A** reported that his group had yet to hold a formal meeting, and had focused on advancing interregional coordination and informal discussions to resolve open issues. A full meeting was scheduled for later that day to examine outputs and progress made during the informal consultations.

1.6 The oral report by the Chairman of the Ad hoc Group of the Plenary 4A was **noted**.

1.7 The **Chairman of the Ad hoc Group of the Plenary 4B1** reported that work on agenda item 1.14 had been completed with the adoption of a number of documents, including agreement on a package that included no changes to the 6 and 28 GHz bands, new identifications and modifications to existing identifications in the 21 GHz, 47 GHz, 31 GHz, and 26 GHz bands and in the 38 GHz band in both directions. Article 11, Appendix 7 and Appendix 4 had been modified accordingly. Documents 404 and 407 would be withdrawn, and revisions to Documents 369, 403, 405, 406, 408 and 410 had been prepared. Minor editorial changes had been made to the resolution concerning the 6 GHz band to delete text relating to actions proposed at WRC-15.

1.8 The oral report by the Chairman of the Ad hoc Group of the Plenary 4B1 was **noted**.

1.9 The **Chairman of the Ad hoc Group of the Plenary 4B2** reported that his group had met the previous day and had drawn some conclusions with regard to the 5.8 GHz band, which he hoped would be presented at the next plenary meeting. Robust discussions had been held on the issue of the 51.50-52.50 GHz band, which would continue at an informal level after the current plenary meeting. Although he hoped that the discussions would yield constructive results, diverging views persisted.

1.10 The oral report by the Chairman of the Ad hoc Group of the Plenary 4B2was **noted**.

1.11 The **Chairman of the Ad hoc Group of the Plenary 4C** reported that his group had met three times the previous day and had also held an interregional coordination meeting before the present plenary meeting in order to agree on an approach to outstanding issues. The regional groups would consider the outcomes of those deliberations and continue informal discussions. The ad hoc group was scheduled to meet later that day to examine the conclusions of those informal exchanges. He was confident that a positive outcome would be achieved.

1.12 The oral report by the Chairman of the Ad hoc Group of the Plenary 4C was **noted**.

1.13 The **Chairman of the Ad hoc Group of the Plenary 5A** reported that his group had met until late the previous evening to discuss agenda items 1.6 and 9.1 (Issue 9.1.3). Two of the three outstanding issues on item 1.6 had been resolved. The issue relating to Resolution **750 (Rev.WRC-15)** concerning applicable limits had been resolved by agreeing to a limit in Table 1.1 of –30 dBW. On the issue of transitional measures, consensus had been reached on one of the options, and a note had been drafted requesting clarification from the Radiocommunication Bureau on how to implement the proposed option, if requested. No progress had been made on agenda item 9.1 (Issue 9.1.3). Some administrations had requested more time to consider the options and considered that decisions should be taken at the level of the regional groups. They had also considered that the decision on the pending issue relating to agenda item 1.6 should also be taken at a higher level.

1.14 The oral report by the Chairman of the Ad hoc Group of the Plenary 5A was **noted**.

1.15 The **Chairman of the Ad hoc Group of the Plenary 5C** reported that his group had met the previous day and had concluded its work on agenda items 1.3 and 1.7. Unfortunately, with regard to agenda item 1.3, the only agreement that could be reached had been for no change. Work on agenda item 1.7 had yielded more positive results: three documents had been prepared for approval at a subsequent plenary meeting.

1.16 The oral report by the Chairman of the Ad hoc Group of the Plenary 5C was **noted**.

1.17 The **Chairman of the Ad hoc Group of the Plenary 6** reported that his group had closed its meeting in the early hours of that morning. It had reached overall agreement on the proposed agenda for WRC-23. Regarding the preliminary agenda for WRC-27, although there was agreement on the items listed, there were several square brackets around frequency bands and there had been no opportunity to consider the associated resolution. The group was preparing output documents to present in plenary with a view to resolving outstanding issues.

1.18 The oral report by the Chairman of the Ad hoc Group of the Plenary 6 was **noted**.

1.19 The **Chairman of Committee 7** reported that his committee had met throughout the previous day and had prepared documents for consideration at the current meeting. He raised concerns regarding the fact that the committee had yet to receive and process a considerable volume of documents.

1.20 The oral report by the Chairman of Committee 7 was **noted**.

1.21 The **Chairman** urged all the ad hoc groups to complete their work as soon as possible.

# 2 Documents for approval (Documents 499, 500, 509, 510 and 518)

2.1 The **Chairman of Committee 5** introduced Documents 499 and 500, containing the tenth and eleventh reports of Committee 5 to the Plenary, relating to the committee’s conclusions concerning agenda item 7 (Issue A), Document 509, containing the twelfth report of Committee 5 to the Plenary, relating to agenda item 7 (Issue E), and Document 510, containing the thirteenth report of Committee 5 to the Plenary, relating to agenda item 7 (Issues E, F and K).

2.2 The **Chairman** said that approval of Documents 499, 500, 509 and 510 would be deferred until after the approval of the related regulatory texts to be submitted by the Editorial Committee.

2.3 It was so **agreed**.

2.4 The **Chairman of Committee 5** introduced Document 518, containing the fourteenth report of Committee 5 to the Plenary, relating to WRC-19’s consideration of requests from notifying administrations regarding regulatory treatment for specific satellite networks. It was proposed that the following text be included in the minutes of the plenary meeting as a decision of the conference:

“WRC‑19 received several documents containing requests from notifying administrations regarding regulatory treatment for specific satellite networks. The results of WRC‑19 consideration of those requests is shown below.

Requests for WRC decisions on specific satellite network filings

Request for ASIASAT-AK, ASIASAT-AK1 and ASIASAT-AKX satellite networks

WRC‑19 considered the specific request made by China in Document 28(Add.22) regarding the validity of certain C- and Ku-band assignments to the Chinese satellite networks ASIASAT-AK, ASIASAT-AK1 and ASIASAT-AKX. After considering the content of Document 28(Add.22) and the particular issues raised therein, WRC‑19 decided to accede to the request contained in Document 28(Add.22) and consequently instructed the Radiocommunication Bureau to maintain in the Master International Frequency Register the frequency assignments to the ASIASAT-AK, ASIASAT-AK1 and ASIASAT-AKX satellite networks listed in the table below.

| Satellite Network | Long | Min Freq (MHz) | Max Freq (MHz) |
| --- | --- | --- | --- |
| ASIASAT-AK | 122°E | 6 425 | 6 723 |
| ASIASAT-AK | 122°E | 10 950 | 11 197 |
| ASIASAT-AK | 122°E | 11 453 | 11 700 |
| ASIASAT-AK1 | 122°E | 12 200 | 12 250 |
| ASIASAT-AKX | 122°E | 6 425 | 6 725 |
| ASIASAT-AKX | 122°E | 10 953 | 11 200 |
| ASIASAT-AKX | 122°E | 11 450 | 11 699 |
| ASIASAT-AKX | 122°E | 13 753 | 14 000 |

Request for INTELSAT8 328.5E and INTELSAT9 328.5E satellite networks

WRC‑19 considered the specific request in Document 46(Add.22) regarding the retention of frequency assignments to the INTELSAT8 328.5E and INTELSAT9 328.5E satellite networks in the frequency bands 10 950‑11 195 MHz and 11 197.98‑11 198.03 MHz. WRC‑19 decided to accede to the specific request made in that document given the particular issues raised in the document. WRC‑19 consequently instructed the Radiocommunication Bureau to maintain the above-mentioned frequency assignments in the Master International Frequency Register.

Request for inclusion in the RR Appendix 30 and 30A Plans of 10 assignments at orbital position 1.9° E, in replacement of Bulgaria’s assignments appearing in the current Plans at 1.2° W

WRC‑19 considered the specific request in Document 43(Add.2) to consider the inclusion in the RR Appendix **30** and **30A** Plans of 10 assignments at orbital position 1.9° E, in replacement of Bulgaria’s assignments appearing in the current Plans at 1.2° W, pursuant to paragraph 4.1.27 of Article 4 of RR Appendices **30** and **30A**. Recognizing that this request was associated with a decision of WRC‑12 on this same issue, and considering the results of the activities conducted after WRC‑12 and the successful completion of the procedure of Article 4 of RR Appendix **30** and notification of the RR Appendix **30** Article 4 filing for BSS channels in the band 11.7-12.2 GHz at the orbital position 1.9° E, WRC-19 decided to accede to the request.

WRC‑19 instructs the Radiocommunication Bureau to include in the RR Appendix **30** and **30A** Plans ten 33 MHz BSS and BSS feeder-link channels 1, 2, 3, 4, 5, 6, 7, 8, 17 and 18 with the characteristics listed in Table 1 below for the Administration of Bulgaria. Once the inclusion has been finished, the Radiocommunication Bureau shall remove the current Plan assignments at 1.2° W of the Administration of Bulgaria in the Appendices **30** and **30** Plans and cancel the frequency assignments corresponding to the above-mentioned 10 channels in the List of additional use and the Master Register of the BULSAT-BSS-1.2W-W satellite network identified in the Table 2 below.

Table 1

List of characteristics of the new RR Appendix 30 and 30A Plan assignments for the Administration of Bulgaria

| Parameter | Downlink | Feeder-link |
| --- | --- | --- |
| Orbital position | 1.9°E | |
| Station keeping (East-West) | 0.05° | |
| Beam identification | BUL02000 | |
| Date of receipt | 23.11.2019 | |
| Date of protection | 19.03.2012 | 04.11.2010 |
| Satellite beam name | E001 | |
| Beam Type | Shaped | |
| Maximum co-polar antenna gain | 33.8 dBi | 36.5 dBi |
| Maximum cross-polar antenna gain | –2 dBi | 0 dBi |
| Co-polar and cross-polar antenna gain contours | Corresponding to the CEED downlink beam and the CER feeder-link beam of the BULSAT-BSS-1.2W-W satellite network in Table 2 below | |
| Boresight | Same as in the GIMS data | |
| Service area | National territory defined as “BUL” in the GIMS software application | |
| Test-points | |  |  | | --- | --- | | Longitude (deg. E) | Latitude (deg. N) | | 27.91 | 42.06 | | 28.47 | 43.70 | | 25.28 | 41.35 | | 22.40 | 42.30 | | 23.01 | 41.44 | | 22.69 | 44.17 | |  |  | | |
| Maximum input power | 13.7 dBW | 18.8 dBW |
| Maximum input power density | −61.5 dBW/Hz | −56.4 dBW/Hz |
| Earth station antenna gain | 33.5 dBi | 57 dBi |
| Earth station antenna diameter | 0.6 m | 5 m |
| Earth station antenna pattern | MODRES | MODTES |
| Earth station 3dB beam width | 2.86° | 0.25° |
| 10 channels | 1, 2, 3, 4, 5, 6, 7, 8, 17, 18 | 1, 2, 3, 4, 5, 6, 7, 8, 17, 18 |
| Bandwidth per channel | 33 MHz | 33 MHz |
| Polarization | Odd linear 0°  Even linear 90° | Odd linear 0°  Even linear 90° |
| Designation of emission | 33M0G7W-- | 33M0G7W-- |
| Power control |  | 3 dB |
| Automatic gain control |  | 15 dB |
| Noise temperature |  | 600 K |
| Exclusive operation group code | E5 | E5 |

Table 2

The relevant beams of the BULSAT-BSS-1.2W-W satellite network in which   
the frequency assignments are to be cancelled

|  |  |  |  |
| --- | --- | --- | --- |
| Satellite name | Orbital position | Special Section (Part B) | Beam |
| BULSAT-BSS-1.2W-W | 1.9° E | AP30/E/599 | CEED |
| AP30A/E/542 | CER |

|  |  |
| --- | --- |
| The CEED downlink beam | The CER feeder-link beam |
| **Co-polar coverage** | |
|  |  |
| **Cross-polar coverage** | |
|  |  |

Request for INSAT-EXK82.5E satellite network

WRC‑19 considered the specific request made by India in Document [92(Add.22)](https://www.itu.int/md/R16-WRC19-C-0092/en) regarding the extension of the regulatory period for bringing into use the INSAT-EXK82.5E satellite network. Considering the particular issues raised in the document, WRC‑19 decided to accede to this request and consequently instructed the Radiocommunication Bureau:

1 to consider the regulatory period for bringing into use the frequency assignments to the INSAT-EXK82.5E satellite network to be extended from 30 March 2017 to 30 June 2017;

2 to record the date of bringing into use of these frequency assignments as 30 June 2017;

3 to record the date of suspension of these frequency assignments under   8.17 of Article 8 of Appendix 30B as 3 January 2018 (so that the 3-year suspension period referred to in this provision ends on 3 January 2021);

4 to process the Part B and notification of these frequency assignments with a formal date of receipt of 22 November 2019.

Request for KYPROS-SAT-3 (39° E) satellite network

WRC‑19 considered the specific request made by Cyprus in Document [48(Add.22)](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=R16-WRC19-C-0048) regarding the bringing into use of the KYPROS-SAT-3 satellite network at the 39° E orbital location. Having successfully addressed initial concerns raised with this request, WRC-19 exceptionally agreed to set the date of bringing into use of the frequency assignments to the KYPROS-SAT-3 satellite network as 7 March 2016. WRC‑19 noted that these frequency assignments were subsequently suspended as of 6 June 2016 and brought back into use within the 3-year period set forth in No. **11.49**.

Request for PALAPA-C1-B (113°E) satellite network

WRC-19 considered the specific request made by Indonesia in Document [35(Add.25)](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=R16-WRC19-C-0035) regarding the extension of the regulatory time-limit for bringing into use frequency assignments to the PALAPA‑C1-B (113°E) satellite network in the frequency bands: 11 452-11 678 MHz, 12 252‑12 532 MHz, 13 758-13 984 MHz, 14 000-14 280 MHz from 6 August 2019 to 31 July 2020. WRC‑19 agreed to accede to this limited time extension request, having confirmed that all frequency coordination activities requested by other administrations during WRC-19 had been completed for this satellite network.

Request for MNG00000 and SANSAR-1 (113.6° E) satellite networks

WRC-19 considered the specific request made by Mongolia in Document [164](https://www.itu.int/md/R16-WRC19-C-0164/en) regarding the reference situation of Mongolian satellite system (113.6° E) in the FSS Plan. WRC-19 instructs the Radiocommunication Bureau to apply with respect to MNG00000 and SANSAR-1 networks of Mongolia the criteria in § 2.1 of Annex **4** to RR Appendix **30B** (as revised by WRC-19) when performing examination of the assignments submitted under § 6.17 of RR Appendix **30B** after 22 November 2019”.

2.5 The **Chairman of Committee 5** noted that Indonesia had, in addition to the request made regarding the PALAPA-C1-B (113°E) satellite network, submitted two other requests, relating to the PSN-146E (146°E) and the GARUDA-2 (123°E) satellite networks. Since the committee’s last meeting, an agreement had been reached by Australia and Indonesia on the PSN-146E (146°E) satellite network and a text would be prepared for consideration at a later plenary meeting. Consensus had yet to be achieved with respect to the GARUDA-2 (123°E) satellite network.

2.6 The **delegate of Indonesia** welcomed the favourable conclusion regarding the PALAPA-C1-B (113°E) satellite network. He thanked the Administration of Australia and its operator for their cooperation, which had made it possible to reach agreement on the PSN-146E (146°E) satellite network. More time was required to liaise with concerned administrations and resolve coordination matters relating to the request for the GARUDA-2 (123°E) satellite network and he hoped to report on progress at a subsequent plenary meeting.

2.7 The **delegate of Australia** confirmed that an agreement had been concluded and ratified by the Administrations of Indonesia and Australia. She hoped that text prepared by both administrations for inclusion in the minutes would be considered at a later plenary meeting.

2.8 The **delegate of the Islamic Republic of Iran** recalled that his delegation had called for the delegation of Indonesia to be given an opportunity to complete coordination, and he thanked the Administration of Australia and its operator for their efforts to find a solution. He hoped that Indonesia would be given additional time to complete the outstanding coordination work.

2.9 The **delegate of the United Arab Emirates** said thathis administration was working with the Administration of Indonesia to complete coordination with respect to the GARUDA-2 (123°E) network and would report to the Plenary on the progress made.

2.10 The **delegate of Luxembourg** noted that agreement had been reached to apply the criteria in §2.1 of Annex 4 to Appendix **30B** of the Radio Regulations as revised by WRC-19 to the request for the MNG00000 and SANSAR-1 (113.6° E) satellite networks submitted by Mongolia. Would those same criteria apply with respect to assignments submitted under §6.1 before 23 November 2019.

2.11 The **delegate of the Islamic Republic of Iran** said that a better arrangement might be possible, and he sought guidance from BR.

2.12 The **representative of BR** said that the Bureau was continuing consultations with the Administrations of Mongolia and the Russian Federation in order to clarify a practical point relating to implementation. Once those consultations had been completed, a final text would be submitted to the Plenary. Additional clarification might be required to ensure that any decision made was acceptable to all administrations.

2.13 The **Chairman** proposed that, subject to the above comments, the text presented in Document 518 with the exception of the last paragraph be approved for inclusion in the minutes of the plenary meeting as a decision of the conference, and that Indonesia be given more time to complete consultations with other parties.

2.14 It was so **agreed**.

2.15 On that understanding, Document 518 was **approved**.

# 3 Thirty-seventh series of texts submitted by the Editorial Committee for first reading (B37) (Document 496)

3.1 The **Chairman of the Editorial Committee** introduced Document 496.

3.2 The **Chairman** invited participants to consider Document 496.

Article 5 (MOD Table 1 300-1 525 MHz, MOD 5.346, MOD 5.346A); Appendix 5 (MOD Table 5-1); MOD Resolution 761 (WRC-15)

3.3 **Approved**.

3.4 The thirty-seventh series of texts submitted by the Editorial Committee for first reading (B37) (Document 496) was **approved**.

# 4 Thirty-seventh series of texts submitted by the Editorial Committee (B37) – second reading (Document 496)

4.1 The thirty-seventh series of texts submitted by the Editorial Committee (B37) (Document 496) was **approved** on second reading.

4.2 The **delegate of Japan**, speaking in his capacity as Chairman of Working Group 4A3 and on behalf of his delegation, welcomed the successful completion of work on agenda item 9.1 (Issue 9.1.2). He thanked the Chairman of Committee 4, the chairmen of the working groups and ad hoc groups that had worked on that item, and administrations and regional groups for their cooperation.

# 5 Thirty-eighth series of texts submitted by the Editorial Committee for first reading (B38) (Document 497)

5.1 The **Chairman of the Editorial Committee** introduced Document 497.

5.2 The **Chairman** invited participants to consider Document 497.

Article 5 (MOD 5.161A, MOD 5.164, MOD 5.279, MOD 5.297, MOD 5.312, MOD 5.323, MOD 5.325A, MOD 5.389F, MOD 5.401, MOD 5.429, MOD 5.431, MOD 5.447); MOD Resolution 26 (Rev.WRC-07); MOD Resolution 155 (WRC-15); MOD Resolution 804 (Rev.WRC-12)

5.3 **Approved**.

5.4 The thirty-eighth series of texts submitted by the Editorial Committee for first reading (B38) (Document 497) was **approved**.

# 6 Thirty-eighth series of texts submitted by the Editorial Committee (B38) – second reading (Document 497)

6.1 The thirty-eighth series of texts submitted by the Editorial Committee (B38) (Document 497) was **approved** on second reading.

# 7 Thirty-ninth series of texts submitted by the Editorial Committee for first reading (B39) (Document 501)

7.1 The **Chairman of the Editorial Committee** introduced Document 501.

7.2 The **Chairman** invited participants to consider Document 501.

Appendix 7 (MOD 1, MOD 2.1.2, MOD Table 2, MOD 3.1, MOD 3.1.1; Annex 5 - MOD 1, MOD 2; Annex 7 - MOD Table 7c, MOD Table 8d, MOD Table 9a, MOD Table 9b, MOD Table 10)

7.3 **Approved**.

7.4 The thirty-ninth series of texts submitted by the Editorial Committee for first reading (B39) (Document 501) was **approved**.

# 8 Thirty-ninth series of texts submitted by the Editorial Committee (B39) – second reading (Document 501)

8.1 The thirty-ninth series of texts submitted by the Editorial Committee (B39) (Document 501) was **approved** on second reading.

# 9 Fortieth series of texts submitted by the Editorial Committee for first reading (B40) (Document 502)

9.1 The **Chairman of the Editorial Committee** introduced Document 502.

9.2 The **Chairman** invited participants to consider Document 502.

Article 11 (MOD 11.44, MOD 11.44.2, MOD 11.44.3, MOD 11.44C, ADD 11.44C.1 and 11.44D.1, ADD 11.44C.3, ADD 11.44C.4, MOD 11.44D, MOD 11.44E, MOD 11.49, ADD 11.49.2, ADD 11.49.3, ADD 11.49.4, ADD 11.49.5, ADD Section III, Add 11.51); Article 13 (MOD 13.6, ADD 13.6.1); Appendix 4 (MOD Table A – items A.20 and A.2.a); ADD Resolution COM5/7 (WRC-19) – A milestone-based approach for the implementation of frequency assignments to space stations in a non-geostationary-orbit satellite system in specific frequency bands and services

9.3 **Approved**.

9.4 The fortieth series of texts submitted by the Editorial Committee for first reading (B40) (Document 502) was **approved**.

# 10 Fortieth series of texts submitted by the Editorial Committee (B40) – second reading (Documents 499, 500 and 502)

10.1 The fortieth series of texts submitted by the Editorial Committee (B40) (Document 502) was **approved** on second reading.

10.2 The **Chairman** invited participants to consider Document 499, the approval of which had been deferred from earlier in the meeting. It was proposed that the following text, contained in the document, be approved and included in the minutes of the plenary meeting as a decision of the conference:

“Understanding of the Radiocommunication Bureau of *resolves* 11 and Annex 2 of Resolution [7(A)-NGSO-MILESTONES] (WRC-19)

The Bureau notes that Resolution **[7(A)-NGSO-MILESTONES] (WRC-19)**, including its Annex 2, does not supersede the proper application of the provisions of RR Article **9** of the Radio Regulations, in particular RR No. **9.6** (initiation of the coordination process), RR Nos. **9.50** to **9.52** and **9.52C** (action upon a request for coordination) and RR No. **9.53** (mutual efforts by the requesting and responding administrations to overcome the difficulties).

This set of provisions creates a balanced framework where both the requesting and responding administrations perform a series of acts that constitutes the bilateral coordination process:

– the requesting administration starts the process;

– the responding administration replies to this request by either giving its agreement or indicating its disagreement together with information concerning its assignments upon which the disagreement is based and suggestions as it is able to offer with a view to a satisfactory resolution of the matter;

– both administrations make every possible mutual effort to overcome the difficulties, in a manner acceptable to the parties concerned.

Therefore the Bureau understands that notifying administrations, when providing, *inter alia,* item 3 of Annex 2 to Resolution **[7(A)-NGSO-MILESTONES] (WRC-19)** pursuant to *resolves* 11 of this Resolution, will have to report on the status of coordination and on efforts made in the coordination with satellite systems or networks identified under the relevant provisions of Section II of RR Article **9**.

Notifying administrations may also include under this item 3 information about coordination activities with later filed satellite systems or networks that they are aware of, which the Bureau understands as beneficial for an administration requesting the application of *resolves* 11. The Bureau notes that it is materially impossible for such an administration to include information related to cases where the requesting administration has not initiated contacts with a view to start detailed technical and operational discussions in advance of the submission of the report request under item 3.

The Bureau finally understands that, by adopting *resolves* 11 and Annex 2 of Resolution **[7(A)-NGSO-MILESTONES] (WRC-19)**, WRC-19 decided to establish a transparent process that will be open for comments: any administration disagreeing with the content of a report provided under item 3 of Annex 2 of this Resolution will have the opportunity to submit its views to the Radio Regulations Board and the administration having submitted the report will have the opportunity to provide its clarification on the matter. The RRB will take into account this information when implementing *resolves* 11*b)* of this Resolution.”

10.3 It was so **agreed**.

10.4 Document 499 was **approved**.

10.5 The **Chairman** invited participants to consider Document 500, the approval of which had been deferred from earlier in the meeting. It was proposed that the following text, contained in the document, be approved and included in the minutes of the plenary meeting as a decision of the conference:

“1 WRC-19 has adopted a new milestone-based approach for the deployment of non-geostationary satellite systems in specific bands and services. WRC-19 indicates to the Director of the Radiocommunication Bureau that with the milestone approach, WRC-19 is not encouraging routine use of No. **13.6** in the Radio Regulations, in the absence of reliable information, to seek confirmation of the deployment of the number of satellites in notified orbital planes for non-geostationary satellite orbit systems in frequency bands and services not listed in *resolves* 1 of the new Resolution.

2 WRC-19 invites ITU-R to study, as a matter of urgency, tolerances for certain orbital characteristics of non-GSO space stations of the fixed-satellite, mobile-satellite or broadcasting satellite services to account for potential differences between the notified and deployed orbital characteristics for the inclination of the orbital plane, the altitude of the apogee of the space station, the altitude of the perigee of the space station and the argument of the perigee of the orbital plane.

3 WRC-19 invites ITU-R to study, as a matter of urgency, possible development of a post-milestone procedure taking into account the reporting defined in § 18 of the Resolution **[7(A)‑NGSO-MILESTONES]**.

Furthermore, WRC-19 instructs the Bureau in applying the relevant provisions of the RR (e.g.  No. 11.44C.2 or *resolves* 9*d)* of Resolution **[7(A)-NGSO-MILESTONES]**) to exercise utmost caution until such time as ITU-R completes studies on tolerances.”

10.6 It was so **agreed**.

10.7 Document 500 was **approved**.

# 11 Forty-fifth series of texts submitted by the Editorial Committee for first reading (B45) (Document 507)

11.1 The **Chairman of the Editorial Committee** introduced Document 507.

11.2 The **Chairman** invited participants to consider Document 507.

Appendix 30B (MOD Article 6)

11.3 **Approved**.

ADD Resolution COM5/8 (WRC-19) – Additional measures for satellite networks in the fixed-satellite service in frequency bands subject to Appendix 30B for the enhancement of equitable access to these frequency bands

11.4 The **delegate of the** **Republic of Korea** proposed that, in order to ensure the consistent use of terminology, the word “administration” in paragraph 2) of Appendix 1 to Attachment 1 should be replaced with “assignment”.

11.5 The **delegate of the** **Islamic Republic of Iran**, supported by the **delegate of Egypt** speaking as the Chairman of Working Group 5B, said that it was usual to refer in the Radio Regulations to an “affected administration” and the text should remain as it stood. The comments by the delegate of the Republic of Korea might be reflected in the minutes.

11.6 The **representative of BR** said that the proposed amendment would have no impact on the Bureau’s application of the provision. He noted that there was no contradiction between the understanding of the delegate of the Republic of Korea and that agreed in the committee.

11.7 The **Chairman** took it that the Plenary wished to keep the text unchanged and to note the comments of the delegate of the Republic of Korea.

11.8 It was so **agreed**.

11.9 ADD Resolution COM5/8 (WRC-19)was **approved**.

11.10 The forty-fifth series of texts submitted by the Editorial Committee for first reading (B45) (Document 507) was **approved**.

# 12 Forty-fifth series of texts submitted by the Editorial Committee (B45) – second reading (Documents 507 and 509)

12.1 The forty-fifth series of texts submitted by the Editorial Committee (B45) (Document 507) was **approved** on second reading.

12.2 The **Chairman** invited participants to consider Document 509, the approval of which had been deferred from earlier in the meeting. It was proposed that the following text, contained in the document, be approved and included in the minutes of the plenary meeting as a decision of the conference:

“Instructions to the Radiocommunication Bureau in application of   
Resolution [A7(E)-AP30B] (WRC-19)

# 1 Application of the § 2 of the attachment of Resolution [A7(E)-AP30B] (WRC-19) for modification under § 6.1 of RR Appendix 30B of a submission previously sent to the Bureau under § 6.1 of RR Appendix 30B

When, under the application of § 2 of the attachment of Resolution **[A7(E)-AP30B] (WRC-19)**, an administration intends to modify a submission previously sent to the Bureau under § 6.1 of RR Appendix **30B**, to resubmit such submission under § 6.1 of RR Appendix **30B** applying the special procedure described in the Attachment of Resolution **[A7(E)-AP30B]** **(WRC-19)**, the Bureau shall verify if the minimum ellipse submitted under this procedure is within the envelope of the initial submission under § 6.1 of RR Appendix **30B**. If this is the case, the Bureau shall keep the initial date of receipt of the initial submission under § 6.1 of RR Appendix **30B**, shall restart compatibility examination with existing filing and shall publish a new special section. Otherwise, the Bureau shall give a new date of reception which is the date of reception of request application of this procedure.

# 2 Application of the § 2 of the attachment of Resolution [A7(E)-AP30B] (WRC-19) for direct submission under § 6.17 of RR Appendix 30B of a submission previously sent to the Bureau under § 6.1 of RR Appendix 30B

a) Submission of an ellipse under § 6.17 of RR Appendix 30B

When, under the application of § 2 of the attachment of Resolution **[A7(E)-AP30B] (WRC-19)**, an administration intends to directly submit under § 6.17 of RR Appendix **30B** and apply the special procedure described in the Attachment of Resolution **[A7(E)-AP30B] (WRC-19)** to a submission previously sent to the Bureau under § 6.1 of RR Appendix **30B**, the Bureau shall verify if the minimum ellipse submitted under this procedure is within the envelope of the initial submission under § 6.1 of RR Appendix **30B**. If this is the case, the Bureau shall keep the initial date of receipt of the initial submission under § 6.1 of RR Appendix **30B** and shall perform analysis under § 6.17 of Appendix **30B** based on this minimum ellipse. Otherwise, the Bureau shall return the notice to the administration.

b) Submission of a shaped beam under § 6.17 of Appendix 30B

When, under the application of § 2 of the attachment of Resolution **[A7(E)-AP30B]** **(WRC-19)**, an administration intends to directly submit under § 6.17 of RR Appendix **30B** and apply the special procedure described in the Attachment of Resolution **[A7(E)-AP30B] (WRC-19)** to a submission previously sent to the Bureau under § 6.1 of RR Appendix **30B**, the Bureau shall verify if the shaped beam submitted under this procedure is within the envelope of the minimum ellipse generated by the Bureau, considering associated test points, and within the envelope of the initial submission under § 6.1 of RR Appendix **30B**. If this is the case, the Bureau shall keep the initial date of receipt of the initial submission under § 6.1 of RR Appendix **30B** and shall perform analysis under § 6.17 of RR Appendix **30B** based on this minimum ellipse. Otherwise, the Bureau shall return the notice to the administration.

# 3 Beam to be created in cases of submissions of an additional system by an administration acting on behalf of a group of named administrations

For a submission of an additional system by an administration acting on behalf of a group of named administrations, the beam of the submission is formed by combining all individual minimum ellipses associated with each of the administrations of the group:

– If all individual minimum ellipses overlap with each other, the beam contains only one coverage area formed by the contours stemming from the combination of all individual minimum ellipses.

– If not all individual minimum ellipses overlap with each other, the beam consists of multiple spots stemming from the non-overlapping ellipses and each spot is formed by the contours stemming from the combination of individual minimum ellipses that overlap with each other.

# 4 Application of the § 12 of the attachment of Resolution [A7(E)-AP30B] (WRC-19) when there is a lack of collaboration of the notifying administration of the existing network

When, under the application of § 12 of the attachment of Resolution **[A7(E)-AP30B] (WRC-19)**, the Bureau does not receive confirmation from the notifying administration of the incoming network that the collaboration between the two administrations has successfully started, the notifying administration may seek assistance of the Bureau. The Bureau shall immediately send a telefax to the notifying administration of the existing network requesting it to provide within 30 days the conditions for the operation to verify harmful interference and proposed date of the implementation of those conditions within the next 4 months for the application of § 12 of Resolution [**A7(E)-AP30B]**. In the absence of such information received by the Bureau, the Bureau shall immediately send a reminder providing an additional 15-day period for the response. In the absence of such acknowledgment within 15 days, it shall be deemed that the notifying administration of the existing network which has failed to start collaboration has undertaken that no complaint will be made in respect of any harmful interference affecting its own assignments which may be caused by the assignment of the notifying administration of the incoming network for which coordination was requested.”

12.3 It was so **agreed**.

12.4 Document 509 was **approved**.

# 13 Forty-sixth series of texts submitted by the Editorial Committee for first reading (B46) (Documents 508 and 510)

13.1 The **Chairman of the Editorial Committee** introduced Document 508.

13.2 The **Chairman** invited participants to consider Document 508.

Appendix 30B (MOD Annex 3, MOD Annex 4)

13.3 **Approved**.

13.4 Following a comment by the **delegate of Kazakhstan,** the **Chairman** proposed that the Plenary approve thedocument on first reading and send it back to the Editorial Committee to align the Russian and English versions before second reading.

13.5 It was so **agreed**.

13.6 The forty-sixth series of texts submitted by the Editorial Committee for first reading (B46) (Document 508) was **approved**.

13.7 The **Chairman** invited participants to consider Document 510, the approval of which had been deferred from earlier in the meeting. It was proposed that the following text, contained in the document, be approved and included in the minutes of the plenary meeting as a decision of the conference:

“Instructions to the Radiocommunication Bureau in application of Annex 3 and Annex 4 of RR Appendix 30B as well as of criteria referred to in Resolution [A7(E)-AP30B] (WRC-19) in its processing, after 22 November 2019, of submissions received under that Appendix

The Radiocommunication Bureau shall continue to calculate and update already accepted single-entry values in both uplink and downlink for all RR Appendix **30B** satellite networks in consistency with footnotes X2 and X3 to item 2.1 of the Annex 4 of RR Appendix **30B (Rev.WRC-19)**, so that this information could be used by administrations during coordination of their respective networks. The Radiocommunication Bureau shall apply:

1 For complete submissions under § 6.1 received by the Bureau before 23 November 2019:

*a)* Annex 3 (WRC-07) in its examination under § 6.3 b);

*b)* Annex 4 (Rev.WRC-07) in its examination under § 6.5.

Note: Including protection of submissions under Issue E examined before Part A.

2 For complete submissions under § 6.17 received by the Bureau before 23 November 2019:

*a)* Annex 3 (WRC-07) in its examination under § 6.19 c);

*b)* Annex 4 (Rev.WRC-07) in its examination under § 6.21;

*c)* Annex 4 (Rev.WRC-07) in its further examination under the new footnote to § 6.21 c);

*d)* Annex 4 (Rev.WRC-07) in its examination under § 6.22.

Note: Including protection of submissions under Issue E examined before Part B.

3 For complete submissions under § 6.17 received by the Bureau after 22 November 2019, related to complete submissions under § 6.1 received by the Bureau before 23 November 2019:

*a)* Annex 3 (WRC-07) in its examination under § 6.19 c);

*b)* Annex 4 (Rev.WRC-07) in its examination under § 6.21;

*c)* Annex 4 (Rev.WRC-07) in its further examination under footnote YY to § 6.21 c) if the remaining affected assignments are recorded in the List before 23 November 2019;

*d)* Annex 4 (Rev.WRC-19) in its further examination under footnote YY to § 6.21 c) if the remaining affected assignments are recorded in the List after 22 November 2019;

*e)* Annex 4 (Rev.WRC-19) in its examination under § 6.22.

Note: Including protection of submissions under Issue E examined before Parts A and/or B.

4 For complete submissions under § 6.1 received by the Bureau after 22 November 2019:

*a)* Annex 3 (Rev.WRC-19) in its examination under § 6.3 b);

*b)* Annex 4 (Rev.WRC-19) in its examination under § 6.5.

5 For complete submissions under § 6.17 received by the Bureau after 22 November 2019, related to complete submissions under § 6.1 received by the Bureau after 22 November 2019:

*a)* Annex 3 (Rev.WRC-19) in its examination under § 6.19 c);

*b)* Annex 4 (Rev.WRC-19) in its examination under § 6.21;

*c)* Annex 4 (Rev.WRC-19) in its examination under § 6.22.

6 For complete submissions under § 6.1 in application of Resolution **[A7(E)-AP30B] (WRC-19)**:

*a)* Annex 3 (Rev.WRC-19) in its examination under § 6.3 b);

*b)* Annex 4 (Rev.WRC-19) and the new criteria referred to in Resolution **[A7(E)‑AP30B] (WRC-19)** in its examination under § 6.5, as appropriate.

Note: Including examination of submissions under Issue E before the examination of the last normal Part A and/or Part B received before 23 November 2019.

7 For complete submissions under § 6.17 in application of Resolution **[A7(E)-AP30B] (WRC-19)**, the Bureau shall apply:

*a)* Annex 3 (Rev.WRC-19) in its examination under § 6.19 c);

*b)* Annex 4 (Rev.WRC-19) and the new criteria referred to in Resolution **[A7(E)‑AP30B] (WRC-19)** in its examination under § 6.21, as appropriate;

*c)* Annex 4 (Rev.WRC-19) and the new criteria referred to in Resolution **[A7(E)‑AP30B] (WRC-19)** in its further examination under footnote YY to § 6.21 c), as appropriate;

*d)* Annex 4 (Rev.WRC-19) and the new criteria referred to in Resolution **[A7(E)‑AP30B] (WRC-19)** in its examination under § 6.22, as appropriate.

Application of § 6.16:

– In excluding the territories of the concerned administration, the Bureau shall apply Annex 4 (Rev.WRC-07) until the last complete submissions under § 6.1 or § 6.17 received by the Bureau before 23 November 2019 has been examined and Annex 4 (Rev.WRC-19) afterward.

– If § 6.16 request is submitted in order to be taken into account for the examination of a complete submissions under § 6.17, in examining those submissions, the Bureau shall apply appropriate Annex 4 used in the examination under § 6.21 and § 6.22 as indicated above.

Application of § 6.27 in updating criteria:

The Bureau shall apply Annex 4 (Rev.WRC-07) until the last complete submissions under § 6.1 or § 6.17 received by the Bureau before 23 November 2019 has been examined and Annex 4 (Rev.WRC-19) afterward.

Application of § 7.5:

– For a request under Article **7** received before 23 November 2019, the Bureau shall apply Annex 3 (WRC-07) and Annex 4 (Rev.WRC-07).

– For a request under Article **7** received after 22 November 2019, the Bureau shall apply Annex 3 (Rev.WRC-19) and Annex 4 (Rev.WRC-19).

In its examination under 6.21 c), the Bureau shall take into account also complete submissions under § 6.1 in application of Resolution **[A7(E)-AP30B] (WRC-19)** and Article 7 request transferred to Article 6 under § 7.7 that has been examined before the date of receipt of the examined notice submitted under § 6.1.”

13.8 It was so **agreed**.

13.9 Document 510 was **approved**.

# 14 Third series of texts submitted by the Editorial Committee for second reading (R3) (Document 498)

14.1 The **Chairman of the Editorial Committee** said that Document 498 reflected the amendments made to ADD Resolution COM4/1 (WRC-19) at the eighth plenary meeting.

14.2 The third series of texts submitted by the Editorial Committee for second reading (R3) (Document 498) was **approved**.

# 15 General comments and organization of work

15.1 The **delegate of China** said that her country – a major global provider of free meteorological data – had concerns regarding agenda item 1.13. As an important stakeholder, it wished to participate in the consultations on that item, particularly as their outcome could affect the protection of EESS systems and have a serious impact on meteorological services.

15.2 The **Chairman** said that related discussions had been held the previous evening and a resolution was expected later that day. However, the delegation of China was welcome to attend any further meetings. Agenda item 1.13 was very important and required consensus. It was important to achieve a result that was fair and would help to foster development.

15.3 The **delegate of the Islamic Republic of Iran** expressed support for the request made by the delegate of China. It would be prudent to include key players, as well as the regional groups, in the discussions, in line with the principle of universality. He called on participants to demonstrate a spirit of compromise.

15.4 The **delegate of Mexico** said that, following the conclusion of negotiations with the United States, Mexico wished to withdraw its request to be added to footnote 5.441A.

15.5 The **Secretary of the Plenary** said that the relevant document had been put on hold pending completion of the negotiations. Once the document had been revised to reflect the agreements reached, it would be submitted to the Plenary.

15.6 The **Chairman of Committee 5** suggested that work on agenda items 1.6 and 9.1 (Issue 9.1.3) required coordination at the regional group level.

15.7 The **Chairman** said that it was important to do whatever was necessary to make progress on those agenda items.

15.8 The **Chairman of the Ad hoc Group of the Plenary 6** asked the Plenary to consider whether a further meeting of the ad hoc group was required in order to address issues relating to agenda item 10.

15.9 The **delegate of the Islamic Republic of Iran** said that, should an additional meeting be held, it should focus on the WRC-23 agenda, in particular the areas that remained in square brackets. There was insufficient time to go into detailed consideration of the resolution relating to the WRC-27 agenda.

15.10 The **Chairman of the Ad hoc Group of the Plenary 6** said that, since there had already been extensive discussion on the agenda for WRC-23, it might be useful to look in more detail at the situation regarding the agenda for WRC-27. He invited representatives of regional organizations to attend an additional meeting and put forward their views.

15.11 The **Chairman** encouraged the ad hoc group to hold the meetings it needed, given the importance of finishing work on agenda item 10. The same advice applied to the other ad hoc groups. In case of deadlock on issues, participants were encouraged to approach him directly. It was best to resolve issues in the ad hoc groups, rather than in plenary.

15.12 Following a discussion involving the delegates of the United Arab Emirates, the Islamic Republic of Iran, Germany, the United Kingdom, Luxembourg and Slovenia relating to issues and documents to be addressed by Ad hoc Group of the Plenary 6, the Chairman of the Ad hoc Group of the Plenary 6 said that he would hold an additional meeting, but was not prepared to reopen the discussion of items already agreed on.

**The meeting rose at 1050 hours.**

The Secretary-General: The Chairman:

H. ZHAO A. BADAWI