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ARTICLE 6

Coordination, notification and recording in the Master International Frequency Register of frequency assignments to terrestrial stations or to earth stations in the fixed-satellite service (Earth-to-space) affecting frequency assignments to broadcasting-satellite stations in the bands 11.7-12.2 GHz (in Region 3), 11.7-12.5 GHz (in Region 1) and 12.2-12.7 GHz (in Region 2)⁵

6.1 The provisions of No. **S9.19** and the associated provisions under Articles **S9** and **S11** are applicable in respect of frequency assignments to broadcasting-satellite stations in the bands 11.7-12.5 GHz in Region 1, 12.2-12.7 GHz in Region 2 and 11.7-12.2 GHz in Region 3:

- a) to transmitting terrestrial stations in the band 11.7-12.7 GHz in all Regions;
- b) to transmitting earth stations in the fixed-satellite service in the band 12.5-12.7 GHz (in Region 1).

6.2 In applying the procedures referred to in § 6.1, the provisions of Appendix **S5** are replaced by the following:

6.2.1 These procedures are to be applied in respect of administrations whose territory is included within the service area associated with:

- a) assignments in conformity with the appropriate Regional Plan in Appendix **S30**;
- b) assignments included in the Regions 1 and 3 List;
- c) assignments for which the procedure of Article 4 of this Appendix has been initiated, as from the date of receipt of the complete Appendix **S4** information under §§ 4.1 or 4.2.

6.2.2 *The criteria to be applied are those given in Annex 3 to this Appendix.*

⁵ These procedures do not replace the procedures prescribed for terrestrial stations in Articles **S9** and **S11**.

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ARTICLE 7

Coordination, notification and recording in the Master International Frequency Register of frequency assignments to stations in the fixed-satellite service (space-to-Earth) in the bands 11.7-12.2 GHz (in Region 2), 12.2-12.7 GHz (in Region 3) and 12.5-12.7 GHz (in Region 1), and to stations in the broadcasting-satellite service in the band 12.5-12.7 GHz (in Region 3) when frequency assignments to broadcasting-satellite stations in the bands 11.7-12.5 GHz in Region 1, 12.2-12.7 GHz in Region 2 and 11.7-12.2 GHz in Region 3 are involved⁸

7.1 The provisions of **S9.7**⁹ and the associated provisions under Articles **S9** and **S11** are applicable in respect of frequency assignments to broadcasting-satellite stations in the bands 11.7-12.5 GHz in Region 1, 12.2-12.7 GHz in Region 2 and 11.7-12.2 GHz in Region 3:

- a) to transmitting space stations in the fixed-satellite service in the bands 11.7-12.2 GHz (in Region 2), 12.2-12.7 GHz (in Region 3) and 12.5-12.7 GHz (in Region 1); and
- b) to transmitting space stations in the broadcasting-satellite service in the band 12.5-12.7 GHz (in Region 3).

7.2 In applying the procedures referred to in § 7.1, the provisions of Appendix **S5** are replaced by the following:

7.2.1 The frequency assignments to be taken into account are:

- a) the assignments in conformity with the appropriate Regional Plan in Appendix **S30**;
- b) the assignments included in the Regions 1 and 3 List;
- c) the assignments for which the procedure of Article 4 of this Appendix has been initiated, as from the date of receipt of the complete Appendix **S4** information under § 4.1 or 4.2.

7.2.2 The criteria to be applied are those given in Annex 4 to this Appendix.

⁸ These provisions do not replace the procedures prescribed in Articles **S9** and **S11** when stations other than those in the planned broadcasting-satellite service are involved.

⁹ The provisions of Resolution **33 (Rev.WRC-97)** are applicable to space stations in the BSS for which the API or the request for coordination has been received by the Bureau prior to 1 January 1999.

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1.7A *1997 Conference*: World Radiocommunication Conference (Geneva, 1997), called in short WRC-97.

1.7B *2000 Conference*: World Radiocommunication Conference (Istanbul, 2000), called in short WRC-2000.

1.8 *Additional use in Regions 1 and 3*: For the application of the provisions of this Appendix, additional uses in Regions 1 and 3 are:

- a) use of assignments with characteristics different from those appearing in the Regions 1 and 3 Plan and which are capable of causing more interference than the corresponding entries in the Plan;
- b) use of assignments in addition to those appearing in the Plan.

1.9 *Regions 1 and 3 List of additional uses (hereafter called in short "the List")* list of assignments for additional uses in Regions 1 and 3 as established by WRC-2000, as updated following the successful application of the procedure of § 4.1 of Article 4 of this Appendix.

ARTICLE 2

Frequency bands

ADD

2.2 The use of the guardbands of the Plans in this Appendix, as defined in § 3.1 and 4.1 of Annex 3 to this Appendix, to provide space operations functions in accordance with No. **S1.23** in support of the operation of GSO BSS networks, shall be coordinated with the assignments subject to these Plans using the provisions of Article 7 of this Appendix. Coordination among assignments intended to provide these functions and services not subject to a Plan shall be effected using the provisions of No. **S9.7** and the associated provisions of Articles **S9** and **S11**. Coordination of modifications to the Region 2 Plan or assignments to be included in the Regions 1 and 3 List, with assignments intended to provide these functions shall be effected using § 4.1.1 *d*) of Article 4 of this Appendix.

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ARTICLE 3

Execution of the provisions and associated Plans

3.1 The Member States in Regions 1, 2 and 3 shall adopt, for their feeder-link space and earth stations in the fixed-satellite service (Earth-to-space) in the frequency bands referred to in this Appendix, the characteristics specified in the appropriate Regional Plan and the associated provisions.

APPENDIX S30A

Provisions and associated Plans for feeder-links for the broadcasting-satellite service (11.7-12.5 GHz in Region 1, 12.2-12.7 GHz in Region 2 and 11.7-12.2 GHz in Region 3) in the frequency bands 14.5-14.8 GHz¹ and 17.3-18.1 GHz in Regions 1 and 3, and 17.3-17.8 GHz in Region 2

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ARTICLE 1

General definitions

1.1 *Regions 1 and 3 feeder link Plan:* The Plan for the feeder-links in the frequency bands 14.5-14.8 GHz² and 17.3-18.1 GHz for the broadcasting-satellite service in Regions 1 and 3 contained in this Appendix, hereinafter referred to as the Regions 1 and 3 Plan.

1.2 *Region 2 feeder link Plan:* The Plan for the feeder-links in the frequency band 17.3-17.8 GHz for the broadcasting-satellite service in Region 2 contained in this Appendix, together with any modifications resulting from the successful application of the procedure of Article 4 of this Appendix, hereinafter referred to as the Region 2 Plan.

1.3 *Frequency assignment in conformity with the Plans:*

- Any frequency assignment for a receiving space station or transmitting earth station which appears in the Regions 1 and 3 Plan; *or*
- Any frequency assignment for a receiving space station or transmitting earth station which appears in the Region 2 Plan or for which the procedure of Article 4 of this Appendix has been successfully applied.

1.4 *1983 Conference:* Regional Administrative Radio Conference for the Planning in Region 2 of the Broadcasting-Satellite Service in the Frequency Band 12.2-12.7 GHz and Associated Feeder-links in the Frequency Band 17.3-17.8 GHz, called in short Regional Administrative Conference for the Planning of the Broadcasting-Satellite Service in Region 2 (RARC Sat-R2) (Geneva, 1983).

1.5 *1985 Conference:* First Session of the World Administrative Radio Conference on the Use of the Geostationary-Satellite Orbit and the Planning of Space Services Utilizing It (Geneva, 1985), called in short WARC Orb-85.

1.6 *1988 Conference:* Second Session of the World Administrative Radio Conference on the Use of the Geostationary-Satellite Orbit and the Planning of Space Services Utilizing It (Geneva, 1988), called in short WARC Orb-88.

² This use of the band 14.5-14.8 GHz is reserved for countries outside Europe.

3.2 The Member States shall not change the characteristics specified in the Region 1 and Region 3 Plans or in the Region 2 Plan, or bring into use assignments to receiving space stations or transmitting earth stations in the fixed-satellite service or to stations of the other services to which these frequency bands are allocated, except as provided for in the Radio Regulations and the appropriate Articles and Annexes of this Appendix.

3.3 The procedures for the use of interim systems in Region 2 for feeder-links in the fixed-satellite service for the bands covered by this Appendix are given in Resolution 42 (Rev.Orb-88).

3.4 The Plan for Regions 1 and 3 is based on national coverage from the geostationary-satellite orbit. The associated procedures contained in this Appendix are intended to promote long-term flexibility of the Plan and to avoid monopolization of the planned bands and orbit by a country or a group of countries.

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ARTICLE 4

Procedures for modifications to the Region 2 Plans or for additional uses in Regions 1 and 3

4.1 Provisions applicable to Regions 1 and 3

4.1.1 An administration proposing to include a new or modified assignment in the List shall seek the agreement of those administrations whose services are considered to be affected, i.e. administrations^{2a}:

- a) of Regions 1 and 3 having a feeder-link frequency assignment in the fixed-satellite service (Earth-to-space) to a space station in the broadcasting-satellite service, in the same channel or an adjacent channel, which is included in the Regions 1 and 3 Plan; *or*
- b) of Regions 1 and 3 having a feeder-link frequency assignment included in the List or for which complete Appendix S4 information has been received by the Bureau in accordance with the provisions of § 4.1.3 of this Article, and any portion of which falls within the necessary bandwidth of the proposed assignment; *or*
- c) of Region 2 having a feeder-link frequency assignment in the fixed-satellite service (Earth-to-space) to a space station in the broadcasting-satellite service which is in conformity with the Region 2 Plan, or in respect of which proposed modifications to that Plan have already been received by the Bureau in accordance with the provisions of § 4.2.6 of this Article with a necessary bandwidth, any portion of which falls within the necessary bandwidth of the proposed assignment; *or*

^{2a} Agreement with administrations having a frequency assignment in the bands 14.5-14.8 GHz or 17.7-18.1 GHz to a terrestrial station, or having a frequency assignment in the band 17.7-18.1 GHz to an earth station in the fixed-satellite service (space-to-Earth), or having a frequency assignment in the band 17.3-17.8 GHz in the broadcasting-satellite service shall be sought under No. S9.17, No. S9.17A or No. S9.19, respectively.

d) of Region 2 having a feeder-link frequency assignment in the band 17.8-18.1 GHz in the fixed-satellite service (Earth-to-space) to a space station in the broadcasting-satellite service which is recorded in the Master Register or which has been coordinated or is being coordinated under the provisions of No. **S9.7**, or under § 7.1 of this Appendix, with a necessary bandwidth, any portion of which falls within the necessary bandwidth of the proposed assignment.

4.1.2 The services of an administration are considered to be affected when the limits shown in Annex 1 are exceeded.

4.1.3 An administration intending to include a new or modified assignment in the List shall send to the Bureau, not earlier than eight years but preferably not later than two years before the date on which the assignment is to be brought into use, the relevant information listed in Appendix **S4**. An assignment in the List shall lapse if it is not brought into use by that date.^{4a}

4.1.4 If the information received by the Bureau under § 4.1.3 is found to be incomplete, the Bureau shall immediately seek from the administration concerned any clarification required and information not provided.

4.1.5 The Bureau shall determine, on the basis of Annex 1, the administrations whose frequency assignments are considered to be affected. The Bureau shall publish^{3A}, in a special section of its International Frequency Information Circular (IFIC), the complete information received under § 4.1.3, together with the names of the affected administrations, FSS networks and BSS assignments, as appropriate. The Bureau shall immediately send the results of its calculations to the administration proposing the assignment.

4.1.6 The Bureau shall send a telegram/fax to the administrations listed in the special section of its IFIC drawing their attention to the information it contains, and shall send them the results of its calculations.

4.1.7 An administration which considers that it should have been identified in the publication referred to under § 4.1.5 above shall, within four months of the date of publication of its relevant IFIC, and giving the technical reasons for so doing, request the Bureau to include its name in the publication. The Bureau shall study this information on the basis of Annex 1 and shall inform both administrations of its conclusions. Should the Bureau agree to the administration's request, it shall publish an addendum to the publication under § 4.1.5.

4.1.8 The administration seeking agreement or the administration with which agreement is sought may request any additional technical information it considers necessary. The administrations shall inform the Bureau of such requests.

^{4a} The provisions of Resolution **533 (Rev.WRC-2000)** apply.

ADD ^{3A} If the payments are not received in accordance with the provisions of Council Decision 482, as amended, on the implementation of cost recovery for satellite network filings, the Bureau shall cancel the publication, after informing the administration concerned. The Bureau shall inform all administrations of such action and that the network specified in the publication in question no longer has to be taken into consideration by the Bureau and other administrations. The Bureau shall send a reminder to the notifying administration, not later than 60 days prior to due date of the payment if payment has not been received by that date. This provision was identified in reply to Resolution 88 (Minneapolis, 1998) of the Plenipotentiary Conference and shall enter into force at a date to be determined by the forthcoming plenipotentiary conference.

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4.1.9 Comments from administrations on the information published pursuant to § 4.1.5 should be sent either directly to the administration proposing the modification or through the Bureau. In any event, the Bureau shall be informed that comments have been made.

4.1.10 An administration that has not notified its comments either to the administration seeking agreement or to the Bureau within a period of four months following the date of its IFIC referred to in § 4.1.5 shall be deemed to have agreed to the proposed assignment. This time-limit may be extended:

- for an administration that has requested additional information under § 4.1.8, by up to three months, *or*
- for an administration that has requested the assistance of the Bureau under § 4.1.21, by up to three months following the date at which the Bureau communicated the result of its action.

4.1.11 If, in seeking agreement, an administration modifies its initial proposal, it shall again apply the provisions of § 4.1 and the consequent procedure with respect to any other administration whose services might be affected as a result of modifications to the initial proposal.

4.1.12 If no comments have been received on the expiry of the periods specified in § 4.1.10, or if agreement has been reached with the administrations which have made comments and with which agreement is necessary, the administration proposing the new or modified assignment may continue with the appropriate procedure in Article 5 and shall inform the Bureau, indicating the final characteristics of the frequency assignment together with the names of the administrations with which agreement has been reached.

4.1.13 The agreement of the administrations affected may also be obtained in accordance with this Article, for a specified period.

4.1.14 Where the proposed assignment involves developing countries, administrations shall seek all practicable solutions conducive to the economical development of the broadcasting-satellite systems of these countries.

4.1.15 The Bureau shall publish in a special section of its IFIC the information received under § 4.1.12, together with the names of any administrations with which the provisions of this Article have been successfully applied. The frequency assignment concerned shall be included in the List.

4.1.16 In case of disagreement on the part of an administration whose agreement has been sought, the requesting administration should first endeavour to solve the problem by exploring all possible means of meeting its requirement. If the problem still cannot be solved by such means, the administration whose agreement has been sought should endeavour to overcome the difficulties as far as possible, and shall state the technical reasons for any disagreement if the administration seeking the agreement requests it to do so.

4.1.17 If no agreement is reached between the administrations concerned, the Bureau shall carry out any study that may be requested by either one of these administrations; the Bureau shall inform them of the result of the study and shall make such recommendations as it may be able to offer for the solution of the problem.

4.1.18 If, in spite of the application of § 4.1.16 and 4.1.17, there is still continuing disagreement and the notifying administration insists that the proposed assignment be included in

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the List, the Bureau shall enter the assignment provisionally in the List with an indication of those administrations whose assignments were the basis of the disagreement; however, the entry shall be changed from provisional to definitive recording in the List only if the Bureau is informed that the new assignment in the List has been in use, together with the assignment which was the basis for the disagreement, for at least four months without any complaint of harmful interference being made. When the assignment which was the basis of the disagreement is an assignment in the Plan, the second period of 15 years referred to in § 4.1.24 is subject to the written agreement of the administration concerned. Any action undertaken by WRC-03 to modify § 4.1.18 shall apply to all assignments entered provisionally in application of this provision between 3 June 2000 and the date of entry into force of the provisions of Appendices **S30** and **S30A**, as modified, if appropriate, by WRC-03. Without prejudice to any decision of WRC-03, the applications of § 4.1.18 in respect to a given assignment in the Plan shall be limited to three in the above period. The relevant studies requested by Resolution [GT PLEN-1/1] (WRC-2000) shall be carried out.

4.1.18*bis* When an assignment is entered in the List provisionally, the responsible administration is deemed to have undertaken to eliminate any harmful interference immediately after notification of that interference.

4.1.19 Should the assignments that were the basis of the disagreement not be brought into use within the period specified in No. **S11.44** (for non-planned services), or in § 4.1 (for assignments in the List or having initiated the procedure under § 4.1), as appropriate, then the status of the assignment in the List shall be reviewed accordingly.

4.1.20 Should harmful interference be caused by an assignment included in the List under § 4.1.18 to any recorded assignment in the Master Register which was the basis of the disagreement, the administration using the frequency assignment included in the List under § 4.1.18 shall, upon receipt of advice thereof, immediately eliminate this harmful interference.

4.1.21 An administration may, at any stage in the procedure described, or before applying it, request the assistance of the Bureau.

4.1.22 The relevant provisions of Article 5 of this Appendix shall be applied when frequency assignments are notified to the Bureau.

4.1.23 When a frequency assignment included in the List is no longer required, the administration concerned shall immediately so inform the Bureau. The Bureau shall publish this information in a special section of its IFIC and delete the assignment from the List.

4.1.24 No assignment in the List shall have a period of operation exceeding 15 years, counted from the date of bringing into use, or 2 June 2000, whichever is later. Upon request by the responsible administration received by the Bureau at the latest three years before the expiry of this period, this period may be extended by up to 15 years, on condition that all the characteristics of the assignment remain unchanged.

4.1.25 Where an administration already having included in the List two assignments (not including those systems notified on behalf of a group of named administrations and included in the List by WRC-2000) in the same channel and covering the same service area, proposes to include in the List a new assignment in the same channel over this same service area, it shall apply the following in respect of another administration which has no assignment in the List in the same channel and which proposes to include in the List a new assignment:

- a) if the agreement of the former administration is required following the application of § 4.1 by the latter administration, in order to protect the new assignment proposed by the former administration from interference caused by the assignment proposed by the latter administration, both administrations shall make every possible effort to resolve the difficulties by means of mutually acceptable adjustments to their networks;

- b) in case of continuing disagreement, and if the former administration has not communicated to the Bureau the information specified in Annex 2 to Resolution 49 (WRC-2000), this administration shall be deemed to have given its agreement to inclusion in the List of the assignment of the latter administration.

4.1.26 This procedure may be applied by the administration of a new ITU Member State in order to include new assignments in the List. Upon completion of the procedure, the next world radiocommunication conference may be requested to consider, among the assignments included in the List after the successful completion of this procedure, the inclusion in the Plan of up to 10 channels (for Region 1) and up to 12 channels (for Region 3), over the national territory of the new Member State.

4.1.27 When an administration has successfully applied this procedure and received all the agreements* required to include in the List assignments over its national territory, at an orbital location and/or in channels different from those appearing in the Plan for its country, it may request the next world radiocommunication conference to consider the inclusion in the Plan of up to 10 (for Region 1) and up to 12 (for Region 3) of these assignments, in replacement of its assignments appearing in the Plan.

4.1.28 The List, as updated, shall be published periodically by the Bureau.

4.1.29 New or modified assignments in the List shall be limited to digital modulation.

4.2 Provisions applicable to Region 2

4.2.1 When an administration intends to make a modification to the Region 2 Plan, i.e.:

- a) to modify the characteristics of any of its frequency assignments in the fixed-satellite service which are shown in the Region 2 Plan, or for which the procedure in this Article has been successfully applied, whether or not the station has been brought into use; *or*
- b) to include in the Region 2 Plan a new frequency assignment in the fixed-satellite service; *or*
- c) to cancel a frequency assignment in the fixed-satellite service.

the following procedure shall be applied before any notification of the frequency assignment is made to the Radiocommunication Bureau (see Article 5 of this Appendix and Resolution 42 (Rev.Orb-88)).

4.2.2 An administration proposing a modification to the characteristics of a frequency assignment in conformity with the Region 2 Plan, or the inclusion of a new frequency assignment in that Plan, shall seek the agreement of those administrations^{3bis,3ter}:

- a) having an assignment for feeder-links in the fixed-satellite service (Earth-to-space) which is in conformity with the Regions 1 and 3 Plan with the necessary bandwidth, any portion of which falls within the necessary bandwidth of the proposed assignment; *or*

* In such a case, § 4.1.18 does not apply.

^{3bis} Agreement with administrations having a frequency assignment in the bands 17.7-17.8 GHz to a terrestrial station or to an earth station in the fixed-satellite service (space-to-Earth) shall be sought under No. S9.17 or No. S9.17A, respectively.

^{3ter} Agreement with administrations having a frequency assignment in the band 17.3-17.8 GHz to an earth station in the broadcasting-satellite service shall be sought under No. S9.19.

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- b) of Regions 1 and 3 having a feeder-link frequency assignment included in the List or for which complete Appendix S4 information has been received by the Bureau in accordance with the provisions of § 4.1.3 of this Article, and any portion of which falls within the necessary bandwidth of the proposed assignment; *or*
- c) of Region 2 having a feeder-link frequency assignment in the fixed-satellite service (Earth-to-space) in the same channel or an adjacent channel, which appears in the Plan or in respect of which proposed modifications to the Plan have been received by the Bureau in accordance with the provisions of § 4.2.6 of this Article;
- d) which are considered affected.

4.2.3 Not used.

4.2.4 The services of an administration are considered to be affected when the limits shown in Annex 1 are exceeded.

4.2.5 The agreement referred to in § 4.2.2 is not required when an administration proposes to bring into use, with characteristics appearing in the Plan, a fixed feeder-link earth station in the band 17.3-17.8 GHz or a transportable feeder-link earth station in the band 17.3-17.7 GHz. Administrations may communicate to the Bureau the characteristics of such earth stations for inclusion in the Plan.

4.2.6 An administration intending to make a modification to the Region 2 Plan shall send to the Bureau, not earlier than eight years but preferably not later than two years before the date on which the assignment is to be brought into use, the relevant information listed in Appendix S4. Modifications to that Plan involving additions under § 4.2.1 b) shall lapse if the assignment is not brought into use by that date.

4.2.7 If the information received by the Bureau under § 4.2.6 is found to be incomplete, the Bureau shall immediately seek from the administration concerned any clarification required and information not provided.

4.2.8 The Bureau shall determine, on the basis of Annex 1, the administrations whose frequency assignments are considered to be affected within the meaning of § 4.2.2. The Bureau shall publish^{3A}, in a special section of its IFIC, the complete information received under § 4.2.6, together with the names of the affected administrations, the corresponding FSS networks and the corresponding BSS assignments, as appropriate. The Bureau shall immediately send the results of its calculations to the administration proposing the modification to the Region 2 Plan.

4.2.9 The Bureau shall send a telegram/fax to the administrations listed in the special section of its IFIC drawing their attention to the information it contains and shall send them the results of its calculations.

ADD ^{3A} If the payments are not received in accordance with the provisions of Council Decision 482, as amended, on the implementation of cost recovery for satellite network filings, the Bureau shall cancel the publication, after informing the administration concerned. The Bureau shall inform all administrations of such action and that the network specified in the publication no longer has to be taken into consideration by the Bureau and other administrations. The Bureau shall send a reminder to the notifying administration, not later than 60 days prior to due date of the payment if payment has not been received by that date. This provision was identified in reply to Resolution 88 (Minneapolis, 1998) of the Plenipotentiary Conference and shall enter into force at a date to be determined by the forthcoming plenipotentiary conference.

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4.2.10 An administration which considers that it should have been included in the list of administrations whose services are considered to be affected may, giving the technical reasons for so doing, request the Bureau to include its name in the list. The Bureau shall study this request on the basis of Annex 1 and shall send a copy of the request, with an appropriate recommendation, to the administration proposing the modification to the Region 2 Plan.

4.2.11 Any modification to a frequency assignment which is in conformity with the Region 2 Plan or any inclusion in that Plan of a new frequency assignment which would have the effect of exceeding the limits specified in Annex 1 shall be subject to the agreement of all affected administrations.

4.2.12 The administration seeking agreement or the administration with which agreement is sought may request any additional technical information it considers necessary. The administrations shall inform the Bureau of such requests.

4.2.13 Comments from administrations on the information published pursuant to § 4.2.8 should be sent either directly to the administration proposing the modification or through the Bureau. In any event, the Bureau shall be informed that comments have been made.

4.2.14 An administration which has not notified its comments either to the administration seeking agreement or to the Bureau within a period of four months following the date of the IFIC referred to in § 4.2.8 shall be deemed to have agreed to the proposed modification. This time-limit may be extended by up to three months for an administration which has requested additional information under § 4.2.12 or for an administration which has requested the assistance of the Bureau under § 4.2.22. In the latter case, the Bureau shall inform the administrations concerned of this request.

4.2.15 If, in seeking agreement, an administration modifies its initial proposal, it shall again apply the provisions of § 4.2 and the consequent procedure with respect to any other administration whose services might be affected as a result of modifications to the initial proposal.

4.2.16 If no comments have been received on the expiry of the periods specified in § 4.2.14, or if agreement has been reached with the administrations which have made comments and with which agreement is necessary, the administration proposing the modification may continue with the appropriate procedure in Article 5 of this Appendix, and shall so inform the Bureau, indicating the final characteristics of the frequency assignment together with the names of the administrations with which agreement has been reached.

4.2.17 The agreement of the administrations affected may also be obtained in accordance with this Article, for a specified period.

4.2.18 When the proposed modification to the Region 2 Plan involves developing countries, administrations shall seek all practicable solutions conducive to the economical development of the broadcasting-satellite systems of these countries.

4.2.19 The Bureau shall publish in a special section of its IFIC the information received under § 4.2.16 together with the names of any administrations with which the provisions of this Article have been successfully applied. The frequency assignment concerned shall enjoy the same status as those appearing in the Region 2 Plan and will be considered as a frequency assignment in conformity with the Plan.

4.2.20 When an administration proposing to modify the characteristics of a frequency assignment or to make a new frequency assignment receives notice of disagreement on the part of an administration whose agreement it has sought, it should first endeavour to solve the problem by exploring all possible means of meeting its requirement. If the problem still cannot be solved by such means, the administration whose agreement has been sought should endeavour to overcome the difficulties as far as possible, and shall state the technical reasons for any disagreement if the administration seeking the agreement requests it to do so.

4.2.21 If no agreement is reached between the administrations concerned, the Bureau shall carry out any study that may be requested by these administrations; the Bureau shall inform them of the result of the study and shall make such recommendations as it may be able to offer for the solution of the problem.

4.2.22 An administration may at any stage in the procedure described, or before applying it, request the assistance of the Bureau.

4.2.23 The relevant provisions of Article 5 of this Appendix shall be applied when frequency assignments are notified to the Bureau.

4.2.24 Cancellation of frequency assignments

When a frequency assignment in conformity with the Region 2 Plan is no longer required, whether or not as a result of a modification, the administration concerned shall immediately so inform the Bureau. The Bureau shall publish this information in a special section of its IFIC and delete the assignment from the Region 2 Plan.

4.2.25 Master copy of the Region 2 Plan

4.2.25.1 The Bureau shall maintain an up-to-date master copy of the Region 2 Plan, including the overall equivalent protection margins of each assignment, taking account of the application of the procedure set out in this Article. This master copy shall contain the overall equivalent protection margins derived from the Plan as established by the 1983 Conference and those derived from all modifications to the Plan as a result of the successful completion of the modification procedure set out in this Article.

4.2.25.2 An up-to-date version of the Region 2 Plan shall be published by the Secretary-General when justified by the circumstances.

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ARTICLE 5

Coordination, notification, examination and recording in the Master International Frequency Register of frequency assignments to feeder-link transmitting earth stations and receiving space stations in the fixed-satellite service^{3A}

5.1 Coordination and notification

5.1.1 When an administration wishes to determine whether it is possible to use, at a given location, an amount of power control which is in excess of that contained in column 14 of the Regions 1 and 3 feeder-link Plan, it shall request the Bureau to determine the amount of permissible power control (not to exceed 10 dB) from that given location using the procedure contained in § 3.11 of Annex 3 to this Appendix.

5.1.2 Whenever an administration intends to bring into use a frequency assignment to a transmitting earth station or receiving space station in the fixed-satellite service in the bands between 14.5 GHz and 14.8 GHz and between 17.3 GHz and 18.1 GHz in Regions 1 and 3, and between 17.3 GHz and 17.8 GHz in Region 2, it shall notify this frequency assignment to the Bureau. For this purpose, the notifying administration shall apply the following provisions.

5.1.3 Before an administration in Region 1 or 3 notifies to the Bureau or brings into use any frequency assignment to a transmitting feeder-link earth station in the bands 14.5-14.8 GHz and 17.7-18.1 GHz with an e.i.r.p. greater than the sum of the values specified in columns 13 and 14 of the Plan, it shall effect coordination of this assignment with each administration whose territory lies wholly or partly within the coordination area of the planned earth station using the method detailed in Appendix S7.

5.1.4 Before an administration in Region 1 or 3 notifies to the Bureau or brings into use any frequency assignment to a transmitting feeder-link earth station in the bands 14.5-14.8 GHz and 17.7-18.1 GHz, it shall effect coordination of this assignment with each administration whose territory lies wholly or partly within the coordination area of the planned earth station, using the method detailed in Appendix S7, in respect of notices concerning stations of the mobile and fixed services in the bands 14.5-14.8 GHz and 17.7-18.1 GHz and of the fixed-satellite service (space-to-Earth) in the band 17.7-18.1 GHz received by the Bureau prior to 3 June 2000 for recording in the International Master Frequency Register (Master Register).

5.1.5 If an administration with which coordination is sought under § 5.1.4 does not respond within three months, the administration intending to bring into use a frequency assignment to a feeder-link earth station shall notify this frequency assignment in accordance with § 5.1.2 above.

^{3A} Notification of assignments to transmitting feeder-link earth stations included in the Region 2 Plan, or included in the List, following successful application of Article 4 of this Appendix, shall be effected applying the provisions of Article S11.

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5.1.6 For any notification under § 5.1.2, an individual notice for each frequency assignment shall be drawn up as prescribed in Appendix S4, the various sections of which specify the basic characteristics to be provided as appropriate. It is recommended that the notifying administration should also supply any other data it may consider useful.

5.1.7 Each notice must reach the Bureau not earlier than three years before the date on which the frequency assignment is to be brought into use. In any case, the notice must reach the Bureau not later than three months before that date.

5.1.8 Any frequency assignment the notice of which reaches the Bureau after the applicable period specified in § 5.1.7 shall, where it is to be recorded, bear a remark in the Master Register to indicate that it is not in conformity with § 5.1.7.

5.1.9 Any notice made under § 5.1.2 which does not contain the characteristics specified in Appendix S4 shall be returned by the Bureau immediately by airmail to the notifying administration with the relevant reasons.

5.1.10 Upon receipt of a complete notice, the Bureau shall include its particulars, with the date of receipt, in its International Frequency Information Circular (IFIC) which shall contain the particulars of all such notices received since the publication of the previous circular.

5.1.11 The circular shall constitute the acknowledgements to the notifying administration of the receipt of a complete notice.

5.1.12 Complete notices shall be considered by the Bureau in order of receipt. The Bureau shall not postpone its finding unless it lacks sufficient data to reach a decision; moreover, the Bureau shall not act upon any notice which has a technical bearing on an earlier notice still under consideration by the Bureau until it has reached a finding with respect to such earlier notice.

5.2 Examination and recording

5.2.1 The Bureau shall examine each notice:

- a) with respect to its conformity with the Convention and the relevant provisions of the Radio Regulations (with the exception of those relating to § *b*), *c*), *d*) *e*) and *f*) below);
and
- b) with respect to its conformity with the appropriate Regional Plan or the Regions 1 and 3 List, as appropriate; *or*
- c) with respect to the coordination requirements specified in the Remarks column of Article 9 or Article 9A of the Appendix; *or*
- d) with respect to its conformity with the appropriate Regional Plan or the Regions 1 and 3 List, however, having characteristics differing from those in the Plan or in the Regions 1 and 3 List in one or more of the following aspects:
 - use of a reduced e.i.r.p.,
 - use of a reduced coverage area entirely situated within the coverage area appearing in the Plan or in the Regions 1 and 3 List,

- use of other modulating signals in accordance with the provisions of § 3.1.3 to Annex 5 of Appendix S30.
 - in the case of Region 2, use of an orbital position under the conditions specified in paragraph B of Annex 7 to Appendix S30,
 - in the case of Regions 1 and 3, use of an orbital position under the conditions specified in § 3.15 of Annex 3⁴.
- e) for Region 2, with respect to its conformity with the provisions of Resolution 42 (Rev.Orb-88);
- f) for Regions 1 and 3, with respect to its conformity with the provisions of § 5.1.3 and also its conformity with § 5.1.4 or 5.1.5 relating to coordination.

5.2.2 When the Bureau reaches a favourable finding with respect to § 5.2.1 a) 5.2.1 b) 5.2.1 c) and 5.2.1 f) the frequency assignment of an administration shall be recorded in the Master Register. The date of receipt of the notice by the Bureau shall be entered in Column 2d. In relations between administrations all frequency assignments brought into use in conformity with the Plan and recorded in the Master Register shall be considered to have the same status irrespective of the dates entered in Column 2d for such frequency assignments.

5.2.2.1 When the Bureau reaches a favourable finding with respect to § 5.2.1 a) 5.2.1 c) 5.2.1 d) and 5.2.1 f) the frequency assignment shall be recorded in the Master Register. The date of receipt of the notice by the Bureau shall be entered in Column 2d. In relations between administrations, all frequency assignments brought into use in conformity with the Plan and recorded in the Master Register shall be considered to have the same status irrespective of the dates entered in Column 2d for such frequency assignments. When recording these assignments, the Bureau shall indicate by an appropriate symbol the characteristics having a value different from that appearing in the Plan.

5.2.2.2 In the case of Region 2, when the Bureau reaches a favourable finding with respect to § 5.2.1 a) and 5.2.1 c) but an unfavourable finding with respect to § 5.2.1 b) and 5.2.1 d) it shall examine the notice with respect to the successful application of the provisions of Resolution 42 (Rev.Orb-88). A frequency assignment for which the provisions of Resolution 42 (Rev.Orb-88) have been successfully applied shall be recorded in the Master Register with an appropriate symbol to indicate its interim status. The date of receipt of the notice by the Bureau shall be entered in Column 2d. In relations between administrations all frequency assignments brought into use following the successful application of the provisions of Resolution 42 (Rev.Orb-88) and recorded in the Master Register shall be considered to have the same status irrespective of the dates entered in Column 2d for such frequency assignments. If the finding with respect to § 5.2.1 e), where applicable, is unfavourable, the notice shall be returned immediately by airmail to the notifying administration.

5.2.2.3 In the case of Regions 1 and 3, when the Bureau reaches a favourable finding with respect to § 5.2.1 a) and 5.2.1 c) but an unfavourable finding with respect to § 5.2.1 b) and 5.2.1 d) the notice shall be returned immediately by airmail to the notifying administration with the Bureau's reasons for this finding and with such suggestions as the Bureau may be able to offer with a view to a satisfactory solution of the problem.

⁴ The Bureau shall also apply this provision to paragraph 5.2.1 d) of Appendix S30 for Regions 1 and 3.

5.2.2.4 In the case of Regions 1 and 3, when the Bureau reaches a favourable finding with respect to § 5.2.1 a), 5.2.1 b), 5.2.1 c) and 5.2.1 d) but an unfavourable finding with respect to § 5.2.1 f), the notice shall be returned immediately by airmail to the notifying administration with the Bureau's reasons for this finding and with such suggestions as the Bureau may be able to offer with a view to a satisfactory solution of the problem. If the unfavourable finding under § 5.2.1 f) is due to the coordination under § 5.1.3 only not being effected, the administration shall undertake only to bring this assignment into use with an e.i.r.p. level not greater than the sum of the values specified in columns 13 and 14 of the Regions 1 and 3 Plan.

5.2.2.5 When an assignment is recorded as a result of a favourable finding with respect to § 5.2.1 f), a remark shall be included indicating that coordination has been effected.

5.2.3 Whenever a frequency assignment is recorded in the Master Register, the finding reached by the Bureau shall be indicated by a symbol in Column 13a.

5.2.4 When the Bureau reaches an unfavourable finding with respect to:

- § 5.2.1 a), or
- § 5.2.1 c), or
- § 5.2.1 b) and 5.2.1 d) and, where appropriate, 5.2.1 e),

the notice shall be returned immediately by airmail to the notifying administration with the Bureau's reasons for this finding and with such suggestions as the Bureau may be able to offer with a view to a satisfactory solution of the problem.

5.2.5 When the notifying administration resubmits the notice and the finding of the Bureau becomes favourable with respect to the appropriate parts of § 5.2.1, the notice shall be treated as in § 5.2.2, 5.2.2.1 or 5.2.2.2 as appropriate.

5.2.6 If the notifying administration resubmits the notice without modification and insists on its reconsideration, and if the Bureau's finding with respect to § 5.2.1 remains unfavourable, the notice is returned to the notifying administration in accordance with § 5.2.4. In this case, the notifying administration undertakes not to bring into use the frequency assignment until the condition specified in § 5.2.5 is fulfilled.

5.2.7 If a frequency assignment notified in advance of bringing into use in conformity with § 5.1.3 has received a favourable finding by the Bureau with respect to the provisions of § 5.2.1, it shall be entered provisionally in the Master Register with a special symbol in the Remarks Column indicating the provisional nature of that entry.

5.2.8 When the Bureau has received confirmation that the frequency assignment has been brought into use, the Bureau shall remove the symbol in the Master Register.

5.2.9 The date in Column 2c shall be the date of bringing into use notified by the administration concerned.

5.3 Cancellation of entries in the Master Register

5.3.1 If an administration has not confirmed the bringing into use of a frequency assignment under § 5.2.8, the Bureau will make inquiries of the administration not earlier than six months after the expiry of the period specified in § 5.1.3. On receipt of the relevant information, the Bureau will either modify the date of coming into use or cancel the entry.

5.3.2 If the use of any recorded frequency assignment is permanently discontinued, the notifying administration shall so inform the Bureau within three months, whereupon the entry shall be removed from the Master Register.

MOD

ARTICLE 6

Coordination, notification and recording in the Master International Frequency Register of frequency assignments to receiving terrestrial stations in Regions 1 and 3 in the bands 14.5-14.8 GHz and 17.7-18.1 GHz, and in Region 2 in the band 17.7-17.8 GHz, when frequency assignments to feeder-link transmitting earth stations for the broadcasting-satellite service in conformity with the Regions 1 and 3 Plan or the Region 2 Plan are involved

6.1 Administrations planning to implement assignments for terrestrial stations in Regions 1 and 3 in the bands 14.5-14.8 GHz and 17.7-18.1 GHz, and in Region 2 in the band 17.7-17.8 GHz should evaluate the level of interference assessed on the basis of coordination contours calculated in accordance with Appendix S7⁵, which might be caused by a feeder-link earth station located on the territory of another administration and included in the service area of an assignment to a BSS feeder-link space station which is in conformity with the appropriate Regional Plan. Should the administration planning terrestrial stations find that interference may be caused by such a feeder-link earth station, it may request the administration responsible for the feeder-link earth station to indicate the geographical coordinates, the antenna characteristics and the horizon elevation angle around its existing and planned feeder-link earth stations.

6.2 In the case of Region 2, when the entry in the Plan contains information on specific earth stations, this shall be used in the interference calculations referred to in § 6.1 above. Where such information is not contained in the Region 2 Plan, an administration which receives a request under § 6.1 shall, within a period of three months, communicate the details of the feeder-link earth stations to the administration planning the terrestrial station, and to the Bureau in order to update the Plan.

6.3 In the case of Regions 1 and 3, an administration which receives a request under § 6.1 shall, within a period of four months, communicate the details of the feeder-link stations to the administration planning the terrestrial station, and to the Bureau for information.

6.4 If, at the end of a period of four months, the administration responsible for the terrestrial station does not receive a reply, it may request the assistance of the Bureau.

6.5 If the administration responsible for the feeder-link earth station does not communicate to the Bureau, within a period of four months, the information requested under § 6.1, this administration shall only implement its feeder-link earth station provided it does not cause harmful interference to the terrestrial station under consideration.

⁵ In the case of Regions 1 and 3, the feeder-link earth-station power to be taken into account is obtained by adding the values specified in columns 13 and 14 of the Plan.

6.6 If, as a result of the application of this Article, an agreement is reached with the administration responsible for the feeder-link earth station or no comments have been received, the administration responsible for the terrestrial station may notify this station under Article S11 for recording in the Master Register. A remark shall be included indicating either that an agreement has been reached or that no comments have been received.

MOD

ARTICLE 7

Coordination, notification and recording in the Master International Frequency Register of frequency assignments to stations in the fixed-satellite service (space-to-Earth) in Regions 1, 2 and 3 in the band 17.7-18.1 GHz, to stations in the fixed-satellite service (Earth-to-space) in Region 2 in the band 17.8-18.1 GHz and to stations in the broadcasting-satellite service in Region 2 in the band 17.3-17.8 GHz when frequency assignments to feeder-links for broadcasting-satellite stations in the 17.3-18.1 GHz band in Regions 1 and 3 or in the band 17.3-17.8 GHz in Region 2 are involved

Section I – Coordination of transmitting space or earth stations in the fixed-satellite service or transmitting space stations in the broadcasting-satellite service with assignments to BSS feeder links

7.1 The provisions of No. S9.7^{5bis} and the associated provisions under Articles S9 and S11 are applicable to transmitting space stations in the fixed-satellite service in the band 17.7-18.1 GHz, to transmitting earth stations in the fixed-satellite service in Region 2 in the band 17.8-18.1 GHz and to transmitting space stations in the broadcasting-satellite service in Region 2 in the band 17.3-17.8 GHz.

7.2 In applying the procedures referred to in § 7.1, the provisions of Appendix S5 are replaced by the following:

7.2.1 The frequency assignments to be taken into account are:

- a) the assignments in conformity with the appropriate Regional Plan in Appendix S30A;
- b) the assignments included in the Regions 1 and 3 List;
- c) the assignments for which the procedure of Article 4 of this Appendix has been initiated as from the date of receipt of the complete Appendix S4 information under § 4.1 or 4.2.

7.2.2 The criteria to be applied are those given in Annex 4 to this Appendix.

^{5bis} The provisions of Resolution 33 (Rev.WRC-97) are applicable to space stations in the BSS for which the API or the request for coordination has been received by the Bureau prior to 1 January 1999.

Section II – Coordination with assignments in conformity with the appropriate Regional Plan in Appendix S30A

7.3 Administrations planning to implement assignments for receiving earth stations in all Regions in the band 17.7-18.1 GHz in the fixed-satellite service (space-to-Earth) or in the band 17.3-17.8 GHz in the broadcasting-satellite service should evaluate the level of interference, assessed on the basis of coordination contours calculated in accordance with Appendix S7, which might be caused by a feeder-link earth station located on the territory of another administration and included in the service area of an assignment to a BSS feeder-link space station which is in conformity with the appropriate Regional Plan. Should the administration planning receiving earth stations find that interference may be caused by such a feeder-link earth station, it may request the administration responsible for the feeder-link earth station to indicate the geographical coordinates, the antenna characteristics and the elevation angle of the horizon around its existing and planned feeder-link earth stations.

7.4 In the case of Region 2, when the entry in the Plan contains information on specific earth stations this shall be used in the interference calculations mentioned in § 7.2 above. Where such information is not contained in the Plan an administration which receives a request under § 7.2 shall, within a period of four months, communicate the details of the feeder-link earth stations to the administration planning the receiving earth station, and to the Bureau in order to update the Plan.

7.5 In the case of Regions 1 and 3, an administration which receives a request under § 7.2 shall, within a period of four months, communicate the details of the feeder-link earth stations to the administration planning the receiving earth station, and to the Bureau for information.

7.6 If, at the end of the period of four months, the administration responsible for the fixed-satellite or broadcasting-satellite receiving earth station(s) does not receive a reply, it may request the assistance of the Bureau.

7.7 If the administration responsible for the feeder-link earth stations does not communicate to the Bureau, within a period of four months, the information requested under § 7.2, this administration shall only implement its feeder-link earth station provided it does not cause harmful interference to the fixed-satellite or broadcasting-satellite earth station(s) under consideration.

7.8 If, as a result of the application of this Article, an agreement is reached with the administration responsible for the feeder-link earth station or no comments have been received, and where the station is recorded in the Master Register in accordance with Article S11, the Bureau shall enter a remark indicating either that an agreement has been reached or that no comments have been received.

Section III – Coordination with assignments in the Regions 1 and 3 List, or for which the procedure of Article 4 of Appendix S30A has been initiated

7.9 The provisions of No. S9.17A and the associated provisions under Articles S9 and S11 and Appendix S5 are applicable to FSS and BSS receiving earth stations, in respect of frequency assignments to transmitting BSS feeder-link earth stations, in the fixed-satellite service in the bands 17.3-18.1 GHz in Regions 1 and 3 and 17.3-17.8 GHz in Region 2 which correspond to assignments to receiving BSS feeder-link space stations already included in the Regions 1 and 3 List, or for which the procedure of Article 4 of Appendix S30A has been initiated, as from the date of receipt of the complete Appendix S4 information.

APPENDIX S30B

ARTICLE 8

MOD

8.3 Such an assignment shall not be subject to the procedures for advance publication and coordination contained in Sections I and II of Article S9⁴. Consequently, the provisions of Article S11 shall continue to be applicable except with respect to the coordination requirement vis-à-vis space radiocommunication stations of other administrations under No. S11.32 and related provisions.

MOD Annex 2

1.4 *Dates* proposed for bringing into use. The date (actual or foreseen, as appropriate) of bringing the frequency assignment (new or modified) into use. The date of bringing into use denotes the date at which the frequency assignment is brought into regular operation to provide the published radiocommunication service with technical parameters within the technical characteristics notified to the Bureau.

⁴ For existing systems in Part B of the Plan, see Section IB of Article 6.

APPENDIX S42

Table of allocation of international call sign series

	Call sign series	Allocated to
ADD	*4WA-4WZ	United Nations
ADD	E4A-E4Z	Palestinian Authority ¹
MOD	VRA-VRZ	China (People's Republic of) – Hong Kong

¹ In response to Resolution 99 (Minneapolis, 1998) of the Plenipotentiary Conference.

MOD

RESOLUTION 5 (Rev.WRC-2000)

**Technical cooperation with the developing countries in
the study of propagation in tropical areas**

The World Radiocommunication Conference (Istanbul, 2000),

having noted

that the assistance provided for the developing countries by the Union in the field of telecommunications in cooperation with other United Nations specialized agencies, such as the United Nations Development Programme (UNDP), augurs well for the future,

aware

- a) of the fact that the developing countries, particularly those in tropical areas, require adequate knowledge of radiowave propagation in their territories in order to make rational and economical use of the radio-frequency spectrum;
- b) of the importance of propagation in radiocommunications;
- c) of the importance of the work of ITU-T and ITU-R study groups for the development of telecommunications in general and radiocommunications in particular.

considering

- a) the need for the developing countries themselves to study telecommunications in general and propagation in particular in their territories, this being the best means of enabling them to acquire telecommunication techniques and to plan their systems effectively and in conformity with the special conditions in the tropical areas;
- b) the scarcity of resources available in these countries,

resolves to instruct the Secretary-General

- 1 to offer the assistance of the Union to developing countries in the tropical areas which endeavour to carry out national propagation studies in order to improve and develop their radiocommunications;
- 2 to assist these countries, if necessary with the collaboration of international and regional organizations such as the Asia-Pacific Broadcasting Union (ABU), Arab States Broadcasting Union (ASBU), African Telecommunication Union (ATU) and the Union of National Radio and Television Organizations of Africa (URTNA) which may be concerned, in carrying out national propagation measurement programmes, including collecting appropriate meteorological data, on the basis of ITU-R Recommendations and Questions in order to improve the use of the radio-frequency spectrum;
- 3 to arrange funds and resources for this purpose from the UNDP or other sources in order to enable the Union to provide the countries concerned with adequate and effective technical assistance for the purpose of this resolution.

RES5-2

urges administrations

to submit the results of these propagation measurements to ITU-R for consideration in its studies,

invites the Council

to follow the progress made in carrying out programmes of propagation measurements and the results achieved, and to take any action that it considers necessary.

MOD

RESOLUTION 10 (REV.WRC-2000)

**Use of two-way wireless telecommunications by the International Red Cross
and Red Crescent Movement**

The World Radiocommunication Conference, (Istanbul, 2000).

considering

- a)* that the worldwide humanitarian operations carried out by the International Red Cross and Red Crescent Movement - composed of the International Committee of the Red Cross, the International Federation of Red Cross and Red Crescent Societies and national Red Cross and Red Crescent societies - are of great importance and often indispensable;
- b)* that in such circumstances normal communication facilities are frequently overloaded, damaged, completely interrupted or not available;
- c)* that it is necessary to facilitate by all possible measures the reliable intervention of these national and international organizations;
- d)* that rapid and independent contact is essential to the intervention of these organizations;
- e)* that for the efficient and safe conduct of their humanitarian operations, these organizations rely heavily on two-way wireless telecommunication facilities, and particularly on an extensive HF and VHF radio network,

resolves to urge administrations

- 1 to take account of the possible needs of the International Red Cross and Red Crescent Movement for two-way wireless telecommunication means when normal communication facilities are interrupted or not available;
- 2 to assign to these organizations the minimum number of necessary working frequencies in accordance with the Radio Regulations;
- 3 to take all practicable steps to protect such communications from harmful interference.

MOD

RESOLUTION 20 (Rev.WRC-2000)

**Technical cooperation with developing countries in
the field of aeronautical telecommunications**

The World Radiocommunication Conference (Istanbul, 2000),

considering

- a) that the allocations of the frequency bands and the provisions concerning various aeronautical mobile services have been revised several times by recent conferences;
- b) that some of these frequency bands and provisions support the worldwide implementation of new aeronautical telecommunication systems;
- c) that on the other hand, some of these frequency bands and provisions support existing aeronautical systems that may be affected by the revision;
- d) that, as a consequence of a), b) and c), technological modernization will be necessary in order to maintain and improve the safety and regularity of international civil aviation, the accuracy and security of aeronautical radionavigation and the efficiency of distress and rescue systems;
- e) that the developing countries may require assistance in improving the training of technical staff, as well as in introducing new systems, in coping with technological modernization and enhancing the operation of aeronautical telecommunications.

recognizing

- a) the value of the assistance which, in conjunction with other international organizations, the Union has provided and may continue to provide to developing countries in the field of telecommunications;
- b) that Resolution 20 (Mob-87) adopted by the World Administrative Radio Conference for the Mobile Services (Geneva, 1987) provides a good basis for the technical cooperation with developing countries in the field of aeronautical telecommunications that has been undertaken by the International Civil Aviation Organization,

resolves to instruct the Secretary-General

- 1 to encourage the International Civil Aviation Organization (ICAO) to continue its assistance to developing countries which are endeavouring to improve their aeronautical telecommunications, in particular by providing them with technical advice for the planning, establishment, operation and maintenance of equipment, as well as help with the training of staff, essentially in matters relating to the new technologies;
- 2 for this purpose, to seek the continued collaboration of ICAO, the United Nations Conference for Trade and Development (UNCTAD) and other specialized agencies of the United Nations, as appropriate;

RES20-2

3 to continue to give special attention to seeking the aid of the United Nations Development Programme (UNDP) and other sources of financial support, to enable the Union to render sufficient and effective technical assistance in the field of aeronautical telecommunications.

invites the developing countries

so far as possible, to give a high level of priority to and include in their national programmes of requests for technical assistance projects relating to aeronautical telecommunications and to support multinational projects in that field.

MOD

RESOLUTION 25 (Rev.WRC-2000)

Operation of global satellite systems for personal communications

The World Radiocommunication Conference (Istanbul, 2000),

considering

- a) that, in accordance with No. 6 of its Constitution (Geneva, 1992), one of the purposes of the Union is "to promote the extension of the benefits of the new telecommunication technologies to all the world's inhabitants";
- b) that, to this end, the Union is fostering the use of new technologies in telecommunications and is studying questions relating to this use in the Radiocommunication and the Telecommunication Standardization Sectors;
- c) that the Telecommunication Development Sector is studying questions aimed at identifying the benefits that developing countries may derive from using new technologies;
- d) that, among these new technologies, constellations of low-Earth orbit satellites may provide global coverage and facilitate low-cost communications;
- e) that the theme "global mobile personal communications by satellite" (GMPCS) was discussed at the first World Telecommunication Policy Forum established by Resolution 2 (Kyoto, 1994) of the Plenipotentiary Conference;
- f) that Council Resolution 1116 instructs the Secretary-General to act as depositary of the GMPCS Memorandum of Understanding (MoU) and its Arrangements, to act as the registry for type-approval procedures and terminal types and to authorize the use of the abbreviation "ITU" as part of the GMPCS-MoU mark;
- g) Recommendations ITU-R M.1343 and ITU-R M.1480 on the essential technical requirements of GMPCS earth stations that should be used by administrations as a common technical basis facilitating the global circulation and use of such GMPCS terminals in conformity with these Recommendations,

recognizing

- a) that the spectrum available to global satellite systems for personal communications is limited;
- b) that successful coordination does not in any way imply licensing authorization to provide a service within the territory of a Member State,

considering further

that other countries intending to use these systems should be guaranteed that they will be operated in accordance with the Constitution, the Convention and the Administrative Regulations,

RES25-2

noting

- a) that the Constitution recognizes the sovereign right of each State to regulate its telecommunications;
- b) that the International Telecommunication Regulations “recognize the right of any Member, subject to national law and should it decide to do so, to require that administrations and private operating agencies, which operate in its territory and provide an international telecommunication service to the public, be authorized by that Member”, and specifies that “within the framework of the present Regulations, the provision and operation of international telecommunication services in each relation is pursuant to mutual agreement between administrations”;
- c) that Article **S18** specifies the authorities for licensing the operation of stations within any given territory;
- d) the right of each Member State to decide on its participation in these systems, and the obligations for entities and organizations providing international or national telecommunication services by means of these systems to comply with the legal, financial and regulatory requirements of the administrations in whose territory these services are authorized,

resolves

that administrations licensing global satellite systems and stations intended to provide public personal communications by means of fixed, mobile or transportable terminals shall ensure, when licensing these systems and stations, that they can be operated only from the territory or territories of administrations having authorized such service and stations in compliance with Articles **S17** and **S18**, in particular No. **S18.1**.

requests administrations

- 1 to continue cooperating with worldwide satellite system operators in improving the established arrangements for the provision of service within their territories and with the Secretary-General in implementing the GMPCS-MoU and its Arrangements;
- 2 to participate actively in the ITU-R studies in developing and improving relevant Recommendations,

reminds operators of such systems

to take account, when contracting agreements on the operation of their systems from the territory of a country, of any potential loss of revenue that the country may suffer from a possible reduction of its international traffic existing at the time such agreements are executed.

MOD

RESOLUTION 27 (Rev.WRC-2000)

Use of incorporation by reference in the Radio Regulations

The World Radiocommunication Conference (Istanbul, 2000),

considering

- a) that the principles of incorporation by reference were adopted by the WRC-95, revised by WRC-97 and further refined by this conference (see Annexes 1 and 2 to this resolution);
- b) that there are provisions in the Radio Regulations containing references which fail to distinguish adequately whether the status of the referenced text is mandatory or non-mandatory;

noting

that references to resolutions or recommendations of a world radiocommunication conference (WRC) require no special procedures, and are acceptable for consideration, since such texts will have been agreed by a WRC,

resolves

- 1 that for the purposes of the Radio Regulations, the term "incorporation by reference" shall only apply to those references intended to be mandatory;
- 2 that when introducing new instances of incorporation by reference:
 - only texts which are relevant to a specific WRC agenda item may be considered;
 - for the correct method of reference, the principles set out in Annex 1 to this resolution and the guidance contained in Annex 2 to this resolution shall be applied;
- 3 that the procedure described in Annex 3 to this resolution shall be applied during WRCs for the adoption of texts for incorporation by reference;
- 4 that all texts incorporated by reference at the conclusion of each WRC shall be collated and published in a volume of the Radio Regulations (see Annex 3 to this resolution),

instructs the Director of the Radiocommunication Bureau

to bring this resolution to the attention of the Radiocommunication Assembly and the ITU-R study groups.

urges administrations

to prepare proposals to future conferences in order to clarify the status of references, where ambiguities remain regarding the mandatory or non-mandatory status of the references in question, and where they are relevant to specific agenda items.

MOD

ANNEX 1 TO RESOLUTION 27 (Rev.WRC-2000)

Principles of incorporation by reference

- 1 For the purposes of the Radio Regulations, the term “incorporation by reference” shall apply only to those references intended to be mandatory.
- 2 Where the relevant texts are brief, the referenced material should be placed in the body of the Radio Regulations rather than using incorporation by reference.
- 3 Texts which are of a non-mandatory nature or which refer to other texts of a non-mandatory nature shall not be considered for incorporation by reference.
- 4 If, on a case-by-case basis, it is decided to incorporate material by reference on a mandatory basis, then the following provisions shall apply:
 - 4.1 the text incorporated by reference shall have the same treaty status as the Radio Regulations themselves;
 - 4.2 the reference must be explicit, specifying the specific part of the text (if appropriate) and the version or issue number;
 - 4.3 the text incorporated by reference must be submitted for adoption by a competent WRC in accordance with *resolves* 3;
 - 4.4 all texts incorporated by reference shall be published following a WRC, in accordance with *resolves* 4.
- 5 If, between WRCs, a text incorporated by reference (e.g. an ITU-R Recommendation) is updated, the reference in the Radio Regulations shall continue to apply to the earlier version incorporated by reference until such time as a competent WRC agrees to incorporate the new version. The mechanism for considering such a step is given in Resolution **28 (Rev.WRC-2000)**.
- 6 Where references are non-mandatory, it is not necessary to establish specific conditions in applying the texts quoted. In such cases, reference should be made using the terminology “the most recent version” of a Recommendation.

MOD

ANNEX 2 TO RESOLUTION 27 (Rev.WRC-2000)

Application of incorporation by reference

When introducing new instances of incorporation by reference in the provisions of the Radio Regulations or reviewing existing instances of incorporation by reference, administrations and ITU-R should address the following factors in order to ensure that the correct style of reference is employed for the intended purpose:

- 1 whether each reference is mandatory, i.e. incorporated by reference, or non-mandatory;
- 2 mandatory references shall use clear linking language, i.e. "shall";
- 3 non-mandatory references, or ambiguous references that are determined to be of a non-mandatory character, shall use appropriate linking language, e.g. "should" or "may";
- 4 mandatory references shall be explicitly and specifically identified, e.g. "Recommendation ITU-R M.541-8";
- 5 if the intended reference material is, as a whole, unsuitable as treaty-status text, the reference shall be limited to just those portions of the material in question which are of a suitable nature. e.g. "Annex A to Recommendation ITU-R Z.123-4".

SUP

ANNEX 3 TO RESOLUTION 27 (Rev.WRC-97)
**Provisions of the Radio Regulations referring to ITU-R and
ITU-T Recommendations**

ADD

ANNEX 3 TO RESOLUTION 27 (Rev.WRC-2000)
**Procedures applicable by WRC for the adoption of texts
for incorporation by reference**

The referenced texts shall be made available to delegations in sufficient time for all administrations to consult them in their final English, Spanish and French versions. A single copy of the texts shall be made available to each administration as a conference document.

During the course of each WRC, a list of the texts incorporated by reference shall be developed and maintained by the committees. This list shall be published as a conference document in line with developments during the conference.

Following the end of each WRC, the Bureau and General Secretariat will update the volume of the Radio Regulations which serves as the repository of texts incorporated by reference in line with developments at the conference as recorded in the above-mentioned document.

SUP

ANNEX 4 TO RESOLUTION 27 (Rev.WRC-97)
List of ITU-R Recommendations referred to in the Radio Regulations¹

MOD

RESOLUTION 28 (Rev.WRC-2000)

**Revision of references to the text of ITU-R Recommendations
incorporated by reference in the Radio Regulations**

The World Radiocommunication Conference (Istanbul, 2000),

considering

- a) that the Voluntary Group of Experts on simplification of the Radio Regulations (VGE) proposed the transfer of certain texts of the Radio Regulations to other documents, especially to ITU-R Recommendations, using the incorporation by reference procedure;
- b) that, in some cases, the provisions of the Radio Regulations imply an obligation on Member States to conform to the criteria or specifications incorporated by reference;
- c) that references to incorporated texts shall be explicit and shall refer to a precisely identified provision (see Resolution 27 (Rev.WRC-2000));
- d) that all texts of ITU-R Recommendations incorporated by reference are published in a volume of the Radio Regulations;
- e) that, taking into account the rapid evolution of technology, ITU-R may revise the ITU-R Recommendations containing text incorporated by reference at short intervals;
- f) that, following revision of an ITU-R Recommendation containing text incorporated by reference, the reference in the Radio Regulations shall continue to apply to the earlier version until such time as a competent WRC agrees to incorporate the new version;
- g) that it would be desirable that texts incorporated by reference reflect the most recent technical developments,

noting

that administrations need sufficient time to examine the potential consequences of changes to ITU-R Recommendations containing text incorporated by reference and would therefore benefit greatly from being advised, as early as possible, of which ITU-R Recommendations have been revised and approved during the elapsed study period,

resolves

1 that each Radiocommunication Assembly shall communicate to the following WRC a list of the ITU-R Recommendations containing text incorporated by reference in the Radio Regulations which have been revised and approved during the elapsed study period:

2 that, on this basis, WRC should examine those revised ITU-R Recommendations, and decide whether or not to update the corresponding references in the Radio Regulations;

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3 that, if WRC decides not to update the corresponding references, the currently referenced version shall be maintained in the Radio Regulations;

4 that WRCs shall place the examination of ITU-R Recommendations in conformity with *resolves 1* and *resolves 2* of this resolution on the agenda of future WRCs,

instructs the Director of the Radiocommunication Bureau

to provide the CPM immediately preceding each WRC with a list, for inclusion in the CPM Report, of those ITU-R Recommendations containing texts incorporated by reference that have been revised or approved since the previous WRC, or that may be revised in time for the following WRC,

urges administrations

1 to participate actively in the work of the radiocommunication study groups and the Radiocommunication Assembly on revision of those Recommendations to which mandatory references are made in the Radio Regulations;

2 to examine any indicated revisions of ITU-R Recommendations containing text incorporated by reference and to prepare proposals on possible updating of relevant references in the Radio Regulations.

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(MOD)

RESOLUTION 46 (Rev.WRC-97)

Interim procedures for the coordination and notification of frequency assignments of satellite networks in certain space services and the other services to which certain bands are allocated^{1*}

^{*} WRC-2000 reviewed this resolution and decided to maintain it with no change, as it is applicable to satellite networks whose frequency assignments were received by the Bureau prior to 1 January 1999.

MOD

RESOLUTION 49 (Rev.WRC-2000)

**Administrative due diligence applicable to some satellite
radiocommunication services**

The World Radiocommunication Conference (Istanbul, 2000),

considering

- a) that Resolution 18 (Kyoto, 1994) of the Plenipotentiary Conference instructed the Director of the Radiocommunication Bureau to initiate a review of some important issues concerning international satellite network coordination and to make a preliminary report to WRC-95 and a final report to WRC-97;
- b) that the Director of the Radiocommunication Bureau provided a comprehensive report to WRC-97, including a number of recommendations for action as soon as possible and for identifying areas requiring further study;
- c) that one of the recommendations in the Director's report to WRC-97 was that administrative due diligence should be adopted as a means of addressing the problem of reservation of orbit and spectrum capacity without actual use;
- d) that experience may need to be gained in the application of the administrative due diligence procedures adopted by WRC-97, and that several years may be needed to see whether administrative due diligence measures produce satisfactory results;
- e) that new regulatory approaches may need to be carefully considered in order to avoid adverse effects on networks already going through the different phases of the procedures;
- f) that Article 44 of the Constitution sets out the basic principles for the use of the radio-frequency spectrum and the geostationary-satellite and other satellite orbits, taking into account the needs of developing countries,

considering further

- g) that WRC-97 decided to reduce the regulatory time-frame for bringing a satellite network into use;
- h) that this conference has considered the results of the implementation of the administrative due diligence procedures and prepared a report to 2002 Plenipotentiary Conference in response to Resolution 85 (Minneapolis, 1998),

resolves

1 that the administrative due diligence procedure contained in Annex 1 to this resolution shall be applied as from 22 November 1997 for a satellite network or satellite system of the fixed-satellite service, mobile-satellite service or broadcasting-satellite service for which the advance publication information under No. **S9.2B**, or for which the request for modifications of the Region 2 Plan under Article 4, § 4.2.1 b) of Appendices **S30** and **S30A** that involve the addition of new frequencies or orbit positions, or for which the request for modifications of the Region 2 Plan under Article 4, § 4.2.1 a) of Appendices **S30** and **S30A** that extend the service area to another country or

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countries in addition to the existing service area, or for which the request for additional uses in Regions 1 and 3 under § 4.1 of Article 4 of Appendices **S30** and **S30A**, or for which the submission of information of Annex 2 of Appendix **S30B** under supplementary provisions applicable to additional uses in the planned bands as defined in Article 2 of that Appendix (Section III of Article 6 of Appendix **S30B**) has been received by the Bureau from 22 November 1997;

2 that for a satellite network or satellite system within the scope of § 1, 2 or 3 of Annex 1 to this resolution not yet recorded in the Master International Frequency Register (MIFR) by 22 November 1997, for which the advance publication information under No. **1042** of the Radio Regulations or the request for a modification to the Plans of Appendices **30** and **30A** or for the application of Section III of Article 6 of Appendix **30B** has been received by the Bureau before 22 November 1997, the responsible administration shall submit to the Bureau the complete due diligence information in accordance with Annex 2 to this resolution not later than 21 November 2003, or before the expiry of the notified period for bringing the satellite network into use, plus any extension period which shall not exceed three years pursuant to the application of No. **1550** of the Radio Regulations or the dates specified in the relevant provisions of Article 4 of Appendix **30**, Article 4 of Appendix **30A** or Article 6 of Appendix **30B**, whichever date comes earlier. If the date of bringing into use, including extension specified above, is before 1 July 1998, the responsible administration shall submit to the Bureau the complete due diligence information in accordance with Annex 2 to this resolution not later than 1 July 1998;

3 that for a satellite network or satellite system within the scope of § 1, 2 or 3 of Annex 1 to this resolution recorded in the MIFR by 22 November 1997, the responsible administration shall submit to the Bureau the complete due diligence information in accordance with Annex 2 to this resolution not later than 21 November 2000, or before the notified date of bringing the satellite network into use (including any extension period), whichever date comes later;

4 that six months before the expiry date specified in *resolves* 2 or 3 above, if the responsible administration has not submitted the due diligence information, the Bureau shall send a reminder to that administration;

5 that if the due diligence information is found to be incomplete, the Bureau shall immediately request the administration to submit the missing information. In any case, the complete due diligence information shall be received by the Bureau before the expiry date specified in *resolves* 2 or 3 above, as appropriate, and shall be published by the Bureau in the International Frequency Information Circular;

6 that if the complete due diligence information is not received by the Bureau before the expiry date specified in *resolves* 2 or 3 above, the request for coordination or request for a modification to the Plans of Appendices **S30/30** and **S30A/30A** or for application of Section III of Article 6 of Appendix **S30B/30B** as covered by *resolves* 1 above submitted to the Bureau shall be cancelled. Any modifications of the Plans (Appendices **S30/30** and **S30A/30A**) shall lapse and any recording in the MIFR as well as recordings in the Appendix **S30B/30B** List shall be deleted by the Bureau after it has informed the concerned administration. The Bureau shall publish this information in the International Frequency Information Circular,

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further resolves

that the procedures in this resolution are in addition to the provisions under Article **S9** or **S11** of the Radio Regulations or Appendices **S30/30**, **S30A/30A** or **S30B/30B**, as applicable, and, in particular, do not affect the requirement to coordinate under those provisions (Appendices **S30/30**, **S30A/30A**) in respect of extending the service area to another country or countries in addition to the existing service area,

instructs the Director of the Radiocommunication Bureau

to report to WRC-03 and future competent world radiocommunication conferences on the results of the implementation of the administrative due diligence procedure,

instructs the Secretary-General

to bring this resolution to the attention of the 2002 Plenipotentiary Conference.

ANNEX 1 TO RESOLUTION 49 (Rev.WRC-2000)

1 Any satellite network or satellite system of the fixed-satellite service, mobile-satellite service or broadcasting-satellite service with frequency assignments that are subject to coordination under Nos. **S9.7**, **S9.11**, **S9.12**, **S9.12A** and **S9.13**, Resolution **33 (Rev.WRC-97)** and Resolution **46 (Rev.WRC-97)** shall be subject to these procedures.

2 Any request for modifications of the Region 2 Plan under the relevant provisions of Article 4 of Appendices **S30/30** and **S30A/30A** that involve the addition of new frequencies or orbit positions or for modifications of the Region 2 Plan under the relevant provisions of Article 4 of Appendices **S30/30** and **S30A/30A** that extend the service area to another country or countries in addition to the existing service area or request for additional uses in Regions 1 and 3 under of Article 4 of Appendices **S30** and **S30A** shall be subject to these procedures.

3 Any submission of information under Annex 2 of Appendix **S30B/30B** under supplementary provisions applicable to additional uses in the planned bands as defined in Article 2 of that Appendix (Section III of Article 6 of Appendix **S30B/30B**) shall be subject to these procedures.

4 An administration requesting coordination for a satellite network under § 1 above shall send to the Bureau as early as possible before bringing into use, but in any case to be received before the end of the 5-year period established as a limit to bringing into use in No. **S9.1**, the due diligence information relating to the identity of the satellite network and the spacecraft manufacturer specified in Annex 2 to this resolution.

5 An administration requesting a modification of the Region 2 Plan or additional uses in Regions 1 and 3 under Appendices **S30/30** and **S30A/30A** under § 2 above shall send to the Bureau as early as possible before bringing into use, but in any case to be received before the end of the period established as a limit to bringing into use in accordance with Appendix **S30/30** and the relevant provisions of Article 4 of Appendix **S30A/30A**, the due diligence information relating to the identity of the satellite network and the spacecraft manufacturer specified in Annex 2 to this resolution.

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6 An administration applying Section III of Article 6 of Appendix **S30B/30B** relating to additional uses under § 3. above shall send to the Bureau as early as possible before the bringing into use, but in any case so as to be received before the bringing into use, the due diligence information relating to the identity of the satellite network and the spacecraft manufacturer specified in Annex 2 to this resolution.

7 The information to be submitted in accordance with § 4, 5 or 6 above shall be signed by an authorized official of the notifying administration or of an administration that is acting on behalf of a group of named administrations.

8 On receipt of the due diligence information under § 4, 5 or 6 above, the Bureau shall promptly examine that information for completeness. If the information is found to be complete, the Bureau shall publish the complete information in a special section of the International Frequency Information Circular within 30 days.

9 If the information is found to be incomplete, the Bureau shall immediately request the administration to submit the missing information. In all cases, the complete due diligence information shall be received by the Bureau within the appropriate time period specified in § 4, 5 or 6 above, as the case may be, relating to the date of bringing the satellite network into use.

10 Six months before expiry of the period specified in § 4, 5 or 6 above and if the administration responsible for the satellite network has not submitted the due diligence information under § 4, 5 or 6 above, the Bureau shall send a reminder to the responsible administration.

11 If the complete due diligence information is not received by the Bureau within the time limits specified in this resolution, the networks covered by § 1, 2 or 3 above shall no longer be taken into account and shall not be recorded in the MIFR. The provisional recording in the MIFR shall be deleted by the Bureau after it has informed the concerned administration. The Bureau shall publish this information in the International Frequency Information Circular.

With respect to the request for modification of the Region 2 Plan or for additional uses in Regions 1 and 3 under Appendices **S30/30** and **S30A/30A** under § 2 above, the modification shall lapse if the due diligence information is not submitted in accordance with this resolution.

With respect to the request for application of Section III of Article 6 of Appendix **S30B/30B** under § 3 above, the network shall also be deleted from the Appendix **S30B/30B** List, if applicable.

12 Before the Bureau extends the date of bringing into use under No. **S11.44**, the complete due diligence information under § 4 above shall have been submitted by the responsible administration.

13 An administration notifying a satellite network under § 1, 2 or 3 above for recording in the MIFR shall send to the Bureau as early as possible before bringing into use, but in any case before the date of bringing into use, the due diligence information relating to the identity of the satellite network and the launch services provider specified in Annex 2 to this resolution.

14 When an administration has completely fulfilled the due diligence procedure but has not completed coordination, this does not preclude the application of No. **S11.41** by that administration.

ANNEX 2 TO RESOLUTION 49 (Rev.WRC-2000)

A Identity of the satellite network

- a)* Identity of the satellite network
- b)* Name of the administration
- c)* Country symbol
- d)* Reference to the advance publication information or to the request for modification of the Region 2 Plan or for additional uses in Regions 1 and 3 under Appendices **S30/30** and **S30A/30A**
- e)* Reference to the request for coordination (not applicable for Appendices **S30/30** and **S30A/30A**)
- f)* Frequency band(s)
- g)* Name of the operator
- h)* Name of the satellite
- i)* Orbital characteristics.

B Spacecraft manufacturer*

- a)* Name of the spacecraft manufacturer
- b)* Date of execution of the contract
- c)* Contractual “delivery window”
- d)* Number of satellites procured.

C Launch services provider

- a)* Name of the launch vehicle provider
- b)* Date of execution of the contract
- c)* Launch or in-orbit delivery window
- d)* Name of the launch vehicle
- e)* Name and location of the launch facility.

* NOTE – In cases where a contract for satellite procurement covers more than one satellite, the relevant information shall be submitted for each satellite.

MOD

RESOLUTION 51 (Rev.WRC-2000)

**Transitional arrangements relating to the advance publication
and coordination of satellite networks**

The World Radiocommunication Conference (Istanbul, 2000),

considering

- a) that as a result of the review under Resolution 18 (Kyoto, 1994) of the Plenipotentiary Conference, a number of provisions relating to the advance publication, coordination and notification of assignments for satellite networks have been modified and these should be applied provisionally as soon as possible;
- b) that WRC-97 decided to reduce the regulatory time-frame for bringing a satellite network into use, and to delete the advance publication information (API) if not followed by the coordination data within 24 months of the date of receipt of the API;
- c) that there are a number of satellite networks for which the relevant information has been communicated to ITU prior to the end of WRC-97, and it is necessary to provide for some transitional measures for the treatment of this information by the Radiocommunication Bureau;
- d) that WRC-97 decided that the provisions of Sections I, IA and IB of Article **S9** and provisions of Article **S11** (Nos. **S11.43A**, **S11.44**, **S11.44B** to **S11.44I**, **S11.47** and **S11.48**), as revised by WRC-97, were to be applied by the Bureau and by administrations on a provisional basis from 22 November 1997;
- e) that WRC-97 decided that, for satellite networks which were subject to coordination for which the API had been received by the Bureau prior to 22 November 1997 but the coordination data had not been received by the Bureau prior to that date, the responsible administration would have until 22 November 1999 or the end of the period pursuant to the application of No. **1056A**, whichever date came earlier, to submit the coordination data in accordance with the applicable provisions of the Radio Regulations; otherwise the Bureau would cancel the relevant API in accordance with No. **1056A** or No. **S9.5D** as applicable;
- f) that WRC-97 decided that the revised Appendix **S4** with respect to the API for satellite networks which were subject to coordination under Section II of Article **S9** was to be applied as of 22 November 1997,

resolves

that, for satellite networks for which the API was received by the Bureau prior to 22 November 1997, the maximum allowed time period from the date of publication of the API to bring the relevant frequency assignments into use shall be six years plus the extension pursuant to No. **1550** (see also Resolution **49 (WRC-97)**).

MOD

RESOLUTION 72 (Rev.WRC-2000)

Regional preparations for world radiocommunication conferences

The World Radiocommunication Conference (Istanbul, 2000),

considering

- a) that many regional telecommunication organizations have coordinated their preparations for WRC-2000;
- b) that many common proposals have been submitted to this conference from administrations participating in the preparations of regional telecommunication organizations;
- c) that this consolidation of views at regional level, together with the opportunity for interregional discussions prior to the conference, has eased the task of reaching a consensus during the conference;
- d) that the burden of preparation for future conferences is likely to increase;
- e) that there is consequently great benefit to the Member States of coordination of preparations at regional level;
- f) that the success of future conferences will depend on greater efficiency of regional coordination and interaction at interregional level prior to future conferences;
- g) that some regional organizations lack the necessary resources to adequately organize and to participate in such preparations;
- h) that there is a need for overall coordination of the interregional consultations,

recognizing

- a) *resolves* 2 of Resolution 80 (Minneapolis, 1998) of the Plenipotentiary Conference: "to support the regional harmonization of common proposals, as stated in Resolution 72 (WRC-97), for submission to world radiocommunication conferences";
- b) *resolves* 3 of Resolution 80 (Minneapolis, 1998) of the Plenipotentiary Conference: "to encourage both formal and informal collaboration in the interval between conferences with a view to resolving differences on new, or conference agenda issues".

noting

- a) that at the World Telecommunication Development Conference (Valletta, 1998) many regional telecommunication organizations expressed the need for the Union to cooperate more closely with regional telecommunication organizations;

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- b) that, consequently, the Plenipotentiary Conference (Minneapolis, 1998) resolved that the Union should develop stronger relations with regional telecommunication organizations;
- c) that the Radiocommunication Assembly (Istanbul, 2000) adopted Resolution ITU-R 48 which sought a strengthening of the regional presence in ITU-R study group work, including WRC-related studies,

further noting

that in some regions the relationship with the ITU-D regional offices has proved to be of great benefit,

resolves to instruct the Director of the Radiocommunication Bureau

1 to continue consulting the regional telecommunication organizations on the means by which assistance can be given to their preparations for future world radiocommunication conferences in the following areas:

- organization of regional preparatory meetings;
- organization of information sessions, preferably before and after the second session of the Conference Preparatory Meeting;
- development of coordination methods;
- identification of major issues to be resolved by the future world radiocommunication conference;
- facilitation of regional and interregional informal and formal meetings, with the objective of reaching a convergence of interregional views on major issues;

2 pursuant to Resolution ITU-R 2-3 of the Radiocommunication Assembly on the CPM, to assist in ensuring that overview presentations of the chapters of the CPM Report will be made by the CPM management at an early stage in the CPM session, as part of the regularly scheduled meetings, in order to help all participants understand the contents of the CPM report;

3 to submit a report on the results of such consultations to both the next plenipotentiary conference and WRC-03,

invites the Director of the Telecommunication Development Bureau

to collaborate with the Director of the Radiocommunication Bureau in implementing this resolution.

MOD

RESOLUTION 80 (Rev.WRC-2000)

Due diligence in applying the principles embodied in the Constitution

The World Radiocommunication Conference (Istanbul, 2000).

considering

a) that Articles 12 and 44 of the ITU Constitution lay down the basic principles for the use of the radio-frequency spectrum and the geostationary-satellite and other satellite orbits;

b) that those principles have been included in the Radio Regulations;

bbis) that Article I of the Agreement between the United Nations and the International Telecommunication Union provides that "the United Nations recognizes the International Telecommunication Union (hereinafter called "the Union") as the specialized agency responsible for taking such action as may be appropriate under its basic instrument for the accomplishment of the purposes set forth therein";

c) that, in accordance with Nos. **S11.30**, **S11.31** and **S11.31.2**, notices shall be examined with respect to the provisions of the Radio Regulations, including the provision relating to the basic principles, appropriate rules of procedure being developed for the purpose;

d) that WRC-97 instructed the Radio Regulations Board to develop, with the framework of Nos. **S11.30**, **S11.31** and **S11.31.2**, rules of procedure to be followed in order to be in compliance with the principles in No. **S0.3**:

dbis) that the Board, in accordance with Resolution **80 (WRC-97)**, submitted a report to this conference suggesting possible solutions and stating that, after examining the Radio Regulations, it had concluded that there are no provisions currently in the Radio Regulations that link the formal notification or coordination procedures with the principles stated in No. **S0.3** of the Preamble to the Radio Regulations;

e) that the Legal Subcommittee of the Committee on the Peaceful Uses of Outer Space of the United Nations General Assembly has drawn up recommendations in this respect,

noting

a) that, in accordance with the provisions of No. 127 of the Convention, the conference may give instructions to the Sectors of the Union;

b) that, according to No. 160C of the Convention, the Radiocommunication Advisory Group shall review any matter as directed by a conference;

c) that in the RRB report to the conference, several members of the Board noted some difficulties likely to be experienced by administrations, particularly administrations of developing countries, as follows:

– the "first-come first-served" concept restricts and sometimes prevents access to and use of certain frequency bands and orbit positions;

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- a relative disadvantage for developing countries in coordination negotiations due to various reasons such as a lack of resources and expertise;
- perceived differences in consistency of application of the Radio Regulations;
- the submitting of “paper” satellites that restricts access options;
- the growing use of the bands of the Plans of Appendices **S30** and **S30A** by regional, multichannel systems, which may modify the main purpose of these Plans to provide equitable access to all countries;
- the considerable processing delays in the Radiocommunication Bureau are due to the very complex procedures required and the large number of filings submitted; these delays contribute to a coordination backlog of 18 months which could extend to three years and creates uncertain regulatory situations, additional delay in the coordination process that cannot be overcome by administrations, and the possible loss of the assignment because the allotted time is exceeded;
- satellite systems may already be in orbit before completion of coordination;
- statutory time-frames, such as those in No. **S11.48**, may often be insufficient for developing countries to be able to complete the regulatory requirements as well as the design, construction and launch of satellite systems;
- no provisions for international monitoring to confirm the bringing into use of satellite networks (assignments and orbits).

resolves

1 to instruct the Radiocommunication Advisory Group to carry out studies and consider possible draft recommendations and draft provisions linking the formal notification, coordination and registration procedures with the principles contained in Article 44 of the Constitution and No. **S0.3** in the Preamble to the Radio Regulations; the studies will take into account, *inter alia*, the report of the Radio Regulations Board to this conference (Document 29), in particular the difficulties pointed out in § 3.2 thereof, and contributions, if any, from members;

2 to instruct the Radio Regulations Board to carry out studies and consider possible draft recommendations and draft provisions linking the formal notification, coordination and registration procedures with the principles contained in Article 44 of the Constitution and No. **S0.3** in the Preamble to the Radio Regulations, and to report to WRC-03 with regard to this resolution;

3 to instruct the Director of the Radiocommunication Bureau to submit to WRC-03 a detailed report on the action taken on this resolution,

invites

the other organs of the Sector to make contributions to the Director of the Radiocommunication Bureau for inclusion in his report to WRC-03 under *resolves* 3.

RES95-1

MOD

RESOLUTION 95 (Rev.WRC-2000)

**General review of the resolutions and recommendations of
world administrative radio conferences and world
radiocommunication conferences**

The World Radiocommunication Conference (Istanbul, 2000),

considering

- a) that it is important to keep the resolutions and recommendations of past world administrative radio conferences and world radiocommunication conferences under constant review, in order to keep them up to date;
- b) that the reports of the Director of the Radiocommunication Bureau submitted to previous conferences provided a useful basis for a general review of the resolutions and recommendations of past conferences;
- c) that some principles and guidelines are necessary for future conferences to treat the resolutions and recommendations of previous conferences which are not related to the agenda of the conference,

resolves to invite future competent world radiocommunication conferences

- 1 to review the resolutions and recommendations of previous conferences that are related to the agenda of the conference with a view to their possible revision, replacement or abrogation and to take appropriate action;
- 2 to review the resolutions and recommendations of previous conferences that are not related to any agenda item of the conference with a view to:
 - abrogating those resolutions and recommendations that have served their purpose or have become no longer necessary;
 - updating and modifying resolutions and recommendations, or parts thereof that have become out of date, and to correct obvious omissions, inconsistencies, ambiguities or editorial errors and effect any necessary alignment;
- 3 at the beginning of the conference, to determine which committee within the conference has the primary responsibility to review each of the resolutions and recommendations referred to in *resolves 1 and 2* above,

instructs the Director of the Radiocommunication Bureau

- 1 to conduct a general review of the resolutions and recommendations of previous conferences and, after consultation with the Radiocommunication Advisory Group and the chairpersons and vice-chairpersons of the radiocommunication study groups, submit a report to the second session of the Conference Preparatory Meeting in respect of *resolves 1 and resolves 2*;

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2 if practicable, to include in the above report an indication of the agenda item, if appropriate, and possible responsible committees within the conference for each text, based on the available information as to the possible structure of the conference,

invites the Conference Preparatory Meeting

to include, in its report, the results of a general review of the resolutions and recommendations of previous conferences.

RES122-1

MOD

RESOLUTION 122 (Rev.WRC-2000)

Use of the bands 47.2-47.5 GHz and 47.9-48.2 GHz by high altitude platform stations (HAPS) in the fixed service and by other services and the potential use of bands in the range 18-32 GHz by HAPS in the fixed service

The World Radiocommunication Conference (Istanbul, 2000),

considering

- a) that the band 47.2-50.2 GHz is allocated to the fixed, mobile and fixed-satellite services on a co-primary basis;
- b) that WRC-97 made provision for operation of HAPS, also known as stratospheric repeaters, within the fixed service in the bands 47.2-47.5 GHz and 47.9-48.2 GHz;
- c) that ITU has among its purposes "to promote the extension of the benefit of the new telecommunication technologies to all the world's inhabitants" (No. 6 of the ITU Constitution);
- d) that systems based on new technologies using high altitude platforms will be able to provide high-capacity, competitive services to urban and rural areas;
- e) that the development of any service requires major investment and that manufacturers and operators should be given the confidence to make the necessary investment;
- f) that high altitude platform systems are in an advanced stage of development and some countries have notified such systems to ITU in the bands 47.2-47.5 GHz and 47.9-48.2 GHz;
- g) that WRC-97 adopted a definition of HAPS in Article **S1**, modified No. **S11.24** and added No. **S11.26** providing for notices relating to assignments for HAPS in the bands 47.2-47.5 GHz and 47.9-48.2 GHz and that the Radio Regulations Board issued a provisional rule of procedure concerning notification periods in No. **S11.24/1228** in February 1997;
- h) that in spite of the urgency attached to the development of such systems, technical, sharing and regulatory issues should be further studied in order to achieve the most efficient use of the spectrum available for these systems;
- i) that while the decision to deploy HAPS can be taken on a national basis, such deployment may affect neighbouring administrations, particularly in small countries;

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- j)* that technical studies have been undertaken on the characteristics of a system using HAPS in the frequency bands 47.2-47.5 GHz and 47.9-48.2 GHz and on the coordination and sharing requirements between systems using HAPS and systems in the conventional fixed service, radio astronomy and in other services, but that further studies are still in progress on the potential for interference between such systems;
- k)* that the radio astronomy service has primary allocations in the bands 42.5-43.5 GHz and 48.94-49.04 GHz;
- l)* that results of ITU-R studies have been presented which indicate that in WRC-97 designated bands at 47.2-47.5 GHz and 47.9-48.2 GHz, sharing between fixed-service systems using HAPS and other conventional fixed-service systems in the same area will require appropriate interference mitigation techniques to be developed and implemented;
- m)* that No. **S5.552** urges administrations to reserve fixed-satellite service use of the band 47.2-49.2 GHz for feeder links for the broadcasting-satellite service, and that ITU-R studies indicate that HAPS in the fixed service may share with broadcasting-satellite feeder links;
- n)* that ITU-R studies in the bands 47.2-47.5 GHz and 47.9-48.2 GHz indicate that sharing between fixed-service systems using HAPS and the fixed-satellite service could be feasible under certain limitations, such as geographical separation between HAPS-based systems and FSS earth stations;
- o)* that since the 47 GHz bands are more susceptible to rain attenuation in certain areas of Region 3, the range 18-32 GHz has been proposed for Region 3 for possible identification of additional spectrum in ITU-R, and preliminary ITU-R studies are in progress for these bands;
- p)* that the 18-32 GHz range is already heavily used by a number of different services and a number of other types of applications in the fixed service;
- q)* that Nos. **S5.5SSS** and **S5.5RRR** permit the use of HAPS in the fixed service in the bands 27.5-28.35 GHz and 31.0-31.3 GHz in certain countries on a non-interference, non-protection basis in order to address issues of rain attenuation associated with the 47 GHz bands referred to in *considering b)above*; .
- r)* that technical, sharing and regulatory issues should be studied in order to determine criteria for the operation of HAPS in the bands referred to in *considering q)above*;
- s)* that the 31.3-31.8 GHz band is allocated to the radio astronomy, EESS (passive) and space research (passive) services and the 31.8-32.3 GHz band is allocated to the space research (deep space) service, and that there is a need to appropriately protect these services from unwanted emissions, taking into account No. **S5.340** and the interference criteria given in Recommendations ITU-R SA.1029 and ITU-R RA.769,