



This electronic version (PDF) was scanned by the International Telecommunication Union (ITU) Library & Archives Service from an original paper document in the ITU Library & Archives collections.

La présente version électronique (PDF) a été numérisée par le Service de la bibliothèque et des archives de l'Union internationale des télécommunications (UIT) à partir d'un document papier original des collections de ce service.

Esta versión electrónica (PDF) ha sido escaneada por el Servicio de Biblioteca y Archivos de la Unión Internacional de Telecomunicaciones (UIT) a partir de un documento impreso original de las colecciones del Servicio de Biblioteca y Archivos de la UIT.

(ITU) نتاج تصوير بالمسح الضوئي أجراه قسم المكتبة والمحفوظات في الاتحاد الدولي للاتصالات (PDF) هذه النسخة الإلكترونية نقلاً من وثيقة ورقية أصلية ضمن الوثائق المتوفرة في قسم المكتبة والمحفوظات.

此电子版（PDF 版本）由国际电信联盟（ITU）图书馆和档案室利用存于该处的纸质文件扫描提供。

Настоящий электронный вариант (PDF) был подготовлен в библиотечно-архивной службе Международного союза электросвязи путем сканирования исходного документа в бумажной форме из библиотечно-архивной службы МСЭ.



**Documents of the World Administrative Radio Conference on the Aeronautical Mobile (R) Service
(WARC-Aer2) (Geneva, 1978)**

To reduce download time, the ITU Library and Archives Service has divided the conference documents into sections.

- This PDF includes Document No. 301-364
- The complete set of conference documents includes Document No. 1-364, DT No. 1-65, DL No. 2-4

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 301-E

1 March 1978

Original : English

PLENARY MEETING

MINUTES

OF THE

SECOND PLENARY MEETING

Wednesday, 22 February 1978, at 0905 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

Subjects discussed

Document No.

1. Approval of the Minutes of the First Plenary Meeting
2. Progress Reports by the Chairmen of Committees 2, 3, 4, 5, 6 and 7
3. Documents submitted to the Plenary Meeting

166

-

165, 181, 220



1. Approval of the Minutes of the First Plenary Meeting (Document No. 166)

The Minutes of the First Plenary Meeting (Document No. 166) were approved.

2. Progress Reports by the Chairmen of Committees 2, 3, 4, 5, 6 and 7

2.1 The Chairman of Committee 2 said that on 13 February the Working Group set up by Committee 2 at its first meeting had examined the credentials of 58 delegations and had found them to be in order. Since that date, credentials had been received from 13 other delegations. The total number of delegations registered at the Conference on 21 February was 89. The next meeting at which credentials would be examined was scheduled for 24 February.

2.2 The Chairman of Committee 3 said that the budgetary reserve available at the beginning of the Conference had been noted by Committee 3 at its first meeting. The need for economy had been emphasized and, through the intermediary of Committee 1, all Committees had been requested to make every effort to perform their work as expeditiously as possible in order to limit expenditure. Committee 3 would hold its second and last meeting during the course of the last week of the Conference in order to review the financial situation on the basis of information provided by the Secretariat.

2.3 The Chairman of Committee 4 said that Committee 4, which had completed its work at its fourth meeting, had established two Working Groups to review, respectively, technical sharing criteria and other provisions of Appendix 27. The Committee's final Report (Document No. 181) was now before the Plenary Meeting for consideration.

2.4 The Chairman of Committee 5 said that Committee 5 had thus far held five meetings. Thanks to the work of the three Working Groups set up to consider, respectively, RDARA boundaries, frequency requirements and the draft Plan, and sharing matrices, the Committee had been able to adopt Documents Nos. 165, 220 and 221 unanimously. However, consultations were still under way with regard to the boundaries of RDARA-6. Examination of the first draft Plan had shown that the requirements submitted were double what could be accommodated in the spectrum. As indicated in Document No. 225, Committee 5 was expected to complete its work on 1 March.

2.5 The Chairman of Committee 6 said that two Working Groups had been set up at the first meeting of Committee 6. The results of Working Group 6A, which had been responsible for considering many aspects of the regulatory parts of Appendix 27, as well as consequential amendments to the Radio Regulations, had to a large extent already been processed by the Committee, the first Report of which (Document No. 204) was ready for consideration by the Plenary Meeting. It was difficult to foresee exactly how Working Group 6B would be affected by the deliberations of Committee 5, but that Working Group was expected to have completed almost all its work by the end of the current week. The Committee itself would probably hold its last meeting early the following week.

2.6 The Chairman of Committee 7 said that the Committee, which was composed of representatives of the Union's three working languages, was meeting regularly and hoped to be able to avoid holding any night meetings. The texts contained in the first Report of Committee 5 (Document No. 165) should be ready for submission to the next Plenary Meeting in the form of a blue document.

2.7 The Chairman thanked the Chairman of Committee 4, which would be holding no further meetings, for his excellent and expeditious work. He also expressed appreciation to the Chairmen of the Working Groups which had completed or almost completed their work, as well as to all those who had participated in their deliberations.

If he heard no objection he would take it that delegations had noted the progress Reports by the Chairmen of the various Committees and were satisfied with the way in which the work of the Conference was proceeding.

It was so agreed.

3. Documents submitted to the Plenary Meeting (Documents Nos. 165, 181 and 220)

Report of Committee 4 (Document No. 181)

3.1 The Chairman of Committee 4 said that the Annex to Document No. 181 contained the texts which had been approved, in most cases unanimously, by Committee 4. Reservations had been expressed on a few points; in particular, two delegations had voiced disappointment at the adoption of the value -26 dB which appeared in the table in MOD 27/63. The French and Spanish language versions of MOD 27/10 did not reflect the changes of substance which had been incorporated in the English text and should be corrected accordingly. Several minor errors and omissions in the French and Spanish language versions of the document would be brought to the attention of Committee 7, together with some editorial corrections to be made in the English language version. All references to the 22 000 kHz band had been placed in square brackets pending a final decision by Committee 7. The table to be inserted under MOD 27/16 would contain a list of carrier frequencies which had been referred by Committee 4 to Committee 5 for consideration. Finally, a certain number of dates appeared between square brackets.

3.2 The Chairman invited the meeting to consider the Annex to the Report of Committee 4, point by point. He requested delegations to refrain from commenting on editorial errors or omissions at the present stage, since they would have the opportunity to do so during the reading of blue and pink documents.

3.3 MOD Title A and NOC Sub-title 1

Approved.

3.4 MOD 27/10

The delegate of Australia proposed the deletion of "(reference)" from the first and third sentences.

The delegates of Argentina and France considered that the text should be retained as it stood.

The delegate of Australia said he would not press the point.

MOD 27/10 was approved.

3.5 MOD 27/11

The representative of the IFRB suggested that the Note following the text of MOD 27/11 should be approved only provisionally, since it related to a draft Resolution that was still under consideration in Working Group 6B.

MOD 27/11 was approved on that understanding.

3.6 ADD 27/11A, MOD 27/12, SUP 27/13

Approved.

3.7 MOD 27/14

The delegate of Norway proposed the deletion of MOD 27/14 which would place an unduly severe restriction on planning work. The statistical probability of the interference referred to was small and any problem that might arise could be dealt with by technical means.

The delegates of France, Argentina and Algeria were in favour of maintaining the text.

The delegate of Norway said that he would not press his proposal which had failed to obtain support.

The representative of the IFRB observed that the wording of MOD 27/14 might be misunderstood. It might be preferable to amend the text to read : "For the avoidance of potential interference, adjacent channels in the List of Frequencies at No. 27/16 have not as a rule been allotted ...". He added that it was the Conference which allotted frequencies and not the Administration.

The delegate of Italy believed that such an amendment would render the second sentence contradictory.

The representative of the IFRB explained that the first sentence was concerned with the allotment of frequencies and the second with the assignment of channels which were two separate things and the two sentences were not inconsistent.

MOD 27/14, as amended by the IFRB, was approved.

3.8 MOD 27/15

The delegate of Spain considered that the wording should be more precise and should mention Article 31 in the International Telecommunication Convention and Article 4 of the Radio Regulations. He noted that the former referred to special arrangements and the latter to agreements.

The Chairman of Committee 4 said that the point could be referred to Committee 7.

The Deputy Secretary-General said that at the 1979 World Administrative Radio Conference the wording of Article 4 of the Radio Regulations would probably be brought into line with that of Article 31 in which the word "agreements" had been replaced by the word "arrangements" at the Malaga-Torremolinos Plenipotentiary Conference.

The delegate of France said that it would be wiser to approve the text of MOD 27/15 as it stood in case the numbering of Articles in the Radio Regulations was changed at the 1979 Conference.

MOD 27/15 was approved without change.

3.9 MOD 27/16

The delegate of Portugal supported by the delegate of Argentina proposed the deletion of the words "to be" before the word "allotted" in the first line since the allotment would have been made at the present Conference. The same amendment should be made in the heading of point 2.

The amendment was approved.

The delegate of Spain, speaking as a member of Committee 7 stressed the importance of clearly distinguishing between the allotment and the assignment of frequencies throughout the text.

The plenary took note of the decision (Document No. 220) adopted by Committee 5 in connection with the table to be inserted in MOD 27/16.

The Chairman of Committee 6 said that Committee 6 would be proposing a footnote concerning the frequencies allotted.

MOD 27/16, as amended, was approved.

MOD in the heading of point 3

Approved.

3.10 MOD 27/17 and MOD 27/18

The Chairman of Committee 6 said that as Committee 6 would be proposing the suppression of 27/17 and 27/18 and the transfer of those two provisions to a new Article 3 in Appendix 27, consideration of that proposal might be deferred.

It was so agreed.

3.11 SUP 27/19, MOD 27/24, ADD 27/24A - NOC 27/29

Approved.

3.12 NOC in heading of point 4, ADD in heading of point 4.1, MOD 27/30, NOC 27/31, ADD in heading of point 4.2, ADD 27/31A-31C

Approved.

3.13 MOD in heading of point 5

Approved.

3.14 MOD 27/32

The delegate of the United States of America suggested that the note in MOD 27/32 be slightly re-worded to read "Transparencies are equally applicable for MWARA, RDARA, VOLMET and world-wide use".

The delegate of Finland suggested that the note to 5.1 should not be given final approval on account of its reference to world-wide use, until Committee 5 had completed its consideration of the frequency requirements for operational control communications, since final approval might hinder its work.

The delegate of Australia argued that full approval would in fact assist the work of Committee 5.

The delegate of Papua New Guinea, supporting that view, drew attention to the fact that frequencies had already been allocated for world-wide use which were not subject to further work on the part of Committee 5.

The Chairman of Committee 5 confirmed that that was the case and that it was in conformity with a decision made by Working Group 5B and contained in Document No. 221.

MOD 27/32, as amended, was approved.

3.15 The proposals relating to Nos. 27/33-27/53 were approved.

3.16 MOD 27/54

The delegate of Afghanistan considered that, as the various services did not all require a maximum peak envelope power of 6 kW, a note should be added specifying the appropriate figure for each one.

The Chairman noted that there was no support for the proposal.

MOD 27/54 was approved without change.

3.17 MOD 27/55, MOD 27/56, NOC 27/57-61

Approved.

3.18 Mod 27/62

The delegate of Norway, supported by the delegate of Finland, proposed the deletion of 27/62 since it did not specify an upper limit for the power employed by aircraft transmitters. The limit should be that laid down in the table in MOD 27/54.

The delegates of France, the United Kingdom and the United States of America were strongly in favour of maintaining MOD 27/62 which had been supported by a majority in Committee 4.

The delegate of Norway said that, with reluctance, he would not press his proposal.

MOD 27/62 was approved.

3.19 ADD heading D and point 1, MOD 27/63, SUP 27/64, MOD in point 2, MOD 27/65

Approved.

3.20 MOD 27/66

The Chairman of Committee 4 proposed that the word "manufactured" be replaced by the words "put in service" in the Note preceding the table in MOD 27/66.

The observer for the International Air Transport Association said he had understood the Note to refer to transmitters manufactured and put into use after 1 February 1983, i.e. new transmitters.

The delegate of the United States of America, supported by the delegates of Japan, Argentina and the USSR, proposed that the Note be amended to read "All transmitters first placed in operation after [1 February 1983] shall comply with MOD 27/66B."

MOD 27/66, as amended, was approved.

3.21 ADD 27/66A

Approved.

3.22 ADD 27/66B

In reply to a suggestion by the delegate of Cuba that the wording should be brought into line with that approved for MOD 27/66, the Chairman said that only the wording "installed" would need to be amended, since otherwise there was no inconsistency between the two paragraphs.

ADD 27/66B thus amended, was approved.

3.23 The proposals relating to Nos. 27/67 to 27/73 were approved.

3.24 Appendix 3

Approved.

3.25 The Deputy Secretary-General, noting the many references throughout the document to the 22 MHz band, in addition to those appearing in Annex B of Document No. 186, recalled that the Conference had decided that that band could only become an integral part of Appendix 27 after the 1979 Conference. The draft Recommendation contained in Document No. 186, already adopted by Committee 6, pending completion of work on the outstanding sections of Appendix 27, would be submitted to the 1979 Conference. For the time being therefore, as guidance to the Editorial Committee, the 22 MHz band was not yet exclusively allocated to the Aeronautical Mobile (R) Service. The Chairmen of Committees 4 and 6 might consider the references to that band in Document No. 181 together, in order to make the appropriate modifications to the Annex to the Recommendation.

The Chairman of Committee 4 said that his Committee had decided that all references to the 22 MHz band should be left in square brackets, since it had not felt it was competent to decide otherwise. He would nevertheless consult with the Chairman of Committee 6 with a view to providing an acceptable text.

The Chairman of Committee 6 said that he had not wished to comment on the use of square brackets until the plenary had decided whether or not to remove them, nor on the draft Recommendation referred to, which would be included in his Committee's next Report to the Plenary. Document No. 204 contained dates of entry into force of the Final Acts and new Allotment Plan, as approved by Committee 6, which might mean that square brackets around dates in Document No. 181 could be removed, but that, too, had to be done by the Plenary. When the Plenary had decided on those issues, he would be in a position to work in close liaison with the Chairman of Committee 4 to produce the relevant text.

Document No. 181, as amended, was approved, taking into account the references to the 22 MHz band.

3.26 Report of Committee 5 (Document No. 165)

The Chairman of Committee 5, introducing the document, said that Committee 5 had held five meetings, had approved the records of the first three, and he had the previous day signed the records of the fourth for publication purposes.

The first part of the document concerning the MWARA boundaries, had been approved unanimously in the Committee. The second part, concerning RDARA's, complemented by paragraphs 2, 3 and 4 of Document No. 220, still lacked four numbers in the series, which would be submitted when agreement had been reached. The maps annexed to the document were working documents, subject to harmonization of terminology and updating of geographical names, all of which would also be reflected in the final text. RDARA delineations had already been updated.

3.27 The proposals relating to Nos. 27/80 to 27/87 were approved.

3.28 ADD 27/87A

The delegate of the Democratic People's Republic of Korea said that while he agreed in general to the NCA boundary description, he had reservations about the coordinates on the western sea of his country, and would submit written proposals as notified to Committee 5.

The Chairman of Committee 5 said that the text, as it stood in Document No. 165, was the result of a compromise reached in Committee 5. The problem referred to by Korea was not a correct interpretation of the line, and drew the attention of that delegation to the provisions of 27/67. He therefore requested that ADD 27/87A should remain as drafted.

It was so agreed.

27/87A was approved.

3.29 The proposals relating to Nos. 27/88 to 27/94 were approved.

3.30 MOD 27/95

The delegate of Algeria said that having consulted the delegations concerned, he proposed that the first coordinate in the third line, 29° N 43° E, should be amended to 29° N 48° E.

The delegate of Kuwait supported that proposal.

The Chairman of Committee 5 pointed out that although the proposed change had not been mentioned in the meeting the previous day, it had no impact on any modifications and he would not object to the proposal if the countries concerned agreed.

It was so agreed.

MOD 27/95, thus amended, was approved.

3.31 The proposals relating to Nos. 27/96 to 27/103A were approved.

3.32 The proposals relating to Nos. 27/174 to 27/185D were approved.

The delineation of the MWARA and VOLMET Areas were thus approved.

3.33 Annex 3

The proposals relating to Nos. 27/104 to 27/106 were approved.

3.34 MOD 27/107

The delegation of Switzerland pointed out that as Liechtenstein was a Member of the ITU, it should be mentioned in the boundary description of Sub-Area IC.

It was so agreed.

MOD 27/107, thus amended, was approved.

3.35 NOC 27/108

Approved.

3.36 MOD 27/109

MOD 27/109 was approved, with the insertion of Liechtenstein, where appropriate.

3.37 The proposals relating to Nos. 27/110 to 27/127 were approved.

3.38 The proposals relating to Nos. 27/131, 27/133 and 27/134 were approved.

3.39 The proposals relating to Nos. 27/136 to 27/164 were approved.

3.40 MOD 27/165

The delegate of India drew attention to NOC 27/165 appearing on the same page of the text.

The Chairman of Committee 5 explained that in view of sub-divisions which had occurred after the point had originally been considered, the numbers did not really follow, but would be corrected in the final text.

MOD 27/165 was approved.

3.41 The proposals relating to Nos. 27/165A to 27/173H were approved.

3.42 Note from the Chairman of Committee 5 to Committee 7 (Document No. 220)

3.43 MOD 27/135

The delegate of Angola drew attention to the fact that the description given did not correspond to the proposal AGL/87/2 adopted in Document No. 87.

The Chairman of Committee 5 replied that that matter would be dealt with by the Editorial Committee. The map annexed to Document No. 216 by Zaire might make the Angolan position clearer.

MOD 27/135 was approved.

3.44 ADD 27/138A; ADD 27/165B NOC 27/1; 27/3 to 27/8; 27/74 to 27/79

Approved.

3.45 Document No. 165 - Maps

The Chairman of Committee 4 pointed out that for maps 5, 7 and 9 annexed, Committee 4 had decided to replace gnomonic projections by Lambert Azimuth projection, which would alter the presentation of those maps.

The Chairman of Committee 5 said that on account of the new projections, Annexes 5, 7 and 9 would be represented at a later date.

The Chairman invited delegates to consider Annexes 4, 6 and 8.

Annexes 4, 6 and 8 were approved.

The meeting rose at 1215 hours.

The Secretary-General :

M. MILI

The Chairman :

T.V. SRIRANGAN

INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 302-E

1 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the Democratic Republic of Sao Tome and Principe :

The Delegation of the Democratic Republic of Sao Tome and Principe, in signing the Final Acts of the World Administrative Radio Conference on the Aeronautical Mobile (R) Service, Geneva 1978, reserves its Government's right to accept or reject the consequences of the reservation at this Conference by other governments where such reservation might jeopardize its telecommunications services. Anyway, it reiterates its respect for the rights and interests of the Members of the Union.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 303-E

1 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For Norway :

In signing the Final Acts of the Aeronautical Mobile (R) Conference, Geneva 1978, the Norwegian delegation wishes to state that the delineation of MWARA areas in no way affects Norway's exclusive right to provide Air Traffic Control, Flight Information Service and to establish associated facilities in the regions of the Kingdom of Norway falling within the NCA MWARA.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 304-E

1 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the Islamic Republic of Pakistan :

In signing the Final Acts of the World Administrative Radio Conference on the Aeronautical Mobile (R) Service, Geneva, 1978, the Delegation of the Islamic Republic of Pakistan reserves the rights of its Government to permit an aircraft station on ground in its territory to communicate with an aeronautical station located outside the territory of the Islamic Republic of Pakistan, on the frequencies as defined in 27/9 of Appendix 27 Aer 2 (1978) to the Radio Regulations.



INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 305-E

1 March 1978

Original : French

PLENARY MEETING

FINAL PROTOCOL

For the Republic of Zaire :

While reaffirming its support for international cooperation in the field of telecommunications and its respect for the rights of every Member of the Union, the Delegation of the Republic of Zaire reserves its Government's right to take any measures it sees fit to protect its own telecommunication interests if the decisions and the provisions of the Final Acts of the 1978 World Administrative Radio Conference on the Aeronautical Mobile (R) Service should be called in question by any Member or should prejudice the proper operation of its telecommunication services.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

PLENARY MEETING

FINAL PROTOCOL

For the United Republic of Tanzania :

In signing the Final Acts of the World Administrative Radio Conference, Aeronautical Mobile (R) Service 1978, the Delegation of the United Republic of Tanzania reserves the right of its Government to take any action it deems necessary to safeguard its interests in the event of Members failing in any way to comply to these provisions, or should these provisions and procedures jeopardize its telecommunication services.





AERONAUTICAL (R) CONFERENCE
GENEVA, 1978

Document No. 307-E
2 March 1978

E

B.5

PLENARY MEETING

5th SERIES OF TEXTS SUBMITTED BY THE
EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for first reading:

<u>Source</u>	<u>Document No.</u>	<u>Title</u>
C.6	294	No. 27/8A Recommendation GG
C.6	315	Recommendation HH
C.5	321	Annex to Recommendation CC 27/128, 27/129, 27/130, 27/132A

C.J. DHENIN
Chairman of the
Editorial Committee

Annex: 8 pages



ADD 27/8A 8A. A world-wide allotment area is one in which frequencies are allotted to provide long-distance communications from an aeronautical station within that allotment area to aircraft operating anywhere in the world.

RECOMMENDATION Aer2 - GG

**Relating to the efficient use of
aeronautical mobile (R) world-wide frequencies**

The World Administrative Radio Conference on the Aeronautical
Mobile (R) Service, Geneva, 1978,

considering

that the Conference has allotted a limited number of world-wide
frequencies for exercising control over regularity of flight and for
safety of aircraft;

recommends to administrations

1. that the number of HF aeronautical stations on the world-wide
channels should be kept to a minimum consistent with the economic
and efficient use of frequencies;
2. that, if possible and practicable, one such station should
serve aircraft operating agencies in adjacent countries and there
should not normally be more than one station per country.

RECOMMENDATION Aer2 - HH

**Relating to cooperation in the efficient use
of world-wide frequencies in the aeronautical mobile (R) service**

The World Administrative Radio Conference on the Aeronautical Mobile (R) Service, Geneva, 1978,

considering

- a) the need to make the most efficient use of world-wide frequencies in the aeronautical mobile (R) service;
- b) that a Plan has been adopted for the allotment by areas of world-wide frequencies in the aeronautical mobile (R) service;
- c) the desirability of coordination between administrations within the areas to which the Allotment Plan applies;
- d) the right of an administration to select and notify to the IFRB for recording in the Master International Frequency Register any frequency assignment in a channel allotted to the area in which its country is located;
- e) the role played by the IFRB in regulatory procedures under Article 9 of the Radio Regulations;
- f) the role played by ICAO in the field of international aeronautical operations;

invites

1. administrations within an Allotment Plan area, as they consider it appropriate, and the International Civil Aviation Organization to seek the advice of the IFRB in determining the best choice of frequencies from a technical viewpoint in order to make the most efficient use of aeronautical mobile (R) world-wide frequencies.

2. administrations within an Allotment Plan area, as they consider it appropriate, to coordinate mutually the use of these frequencies from the viewpoint of aeronautical operations and, in this connection, to bear in mind the benefit that could be gained by obtaining the advice of ICAO in this process;

3. the IFRB to assist any administration or group of administrations in an Allotment Plan area wishing to coordinate their requirements for world-wide frequencies and to continue its cooperation with ICAO for this purpose.

requests

the Secretary-General to bring this Recommendation to the attention of the International Civil Aviation Organization.

TEXT TO BE INCLUDED IN THE ANNEX TO RECOMMENATION No. Aer2 - CC

Appendix 27

Page 3

Modify the title of Part II to read:

"Plan for the Allotment of Frequencies for
the Aeronautical Mobile (R) Service in the
Exclusive Bands between 2850 kHz and 22 000 kHz"

1. Frequency separation of channels

MOD 27/10 1.1 The frequency separation of channels between carrier (reference) frequencies shall be 3 kHz. This is adequate to permit communications using the classes of emission referred to in Nos. ~~27/49~~27/52 in the frequency bands between 2850 kHz and 22 000 kHz allocated exclusively to the aeronautical mobile (R) service. The carrier (reference) frequency of the channels in the Plan shall be an integral multiple of 1 kHz.

MOD 27/16 Add the following new frequencies to the Table of Frequencies:

21 924 - 22 000

21 925	21 964
21 928	21 967
21 931	21 970
21 934	21 973
21 937	21 976
21 940	21 979
21 943	21 982
21 946	21 985
21 949	21 988
21 952	21 991
21 955	21 994
21 958	<u>21 997</u>
21 961	(25) CHNLS

Reason: To leave room for the aeronautical fixed service.

Page 25

Part II: amend title as for page 3 above.

MOD 27/189

MOD [27/207A] [27/208]

Radio Regulations – Article 5 (RR5-33)

21 870-21 924	AERONAUTICAL FIXED
21 924-22 000	AERONAUTICAL MOBILE (R)

MOD 431 § 5 Frequencies in the bands allocated to the
 Aer aeronautical mobile service between 2850 and
 22 000 kHz (see Article 5) shall be assigned in conformity
 with the provisions of Appendices 26 and 27 Aer2 and the
 other relevant provisions of these Regulations.

MOD 552 § 21 (1) Examination of Notices concerning Frequency
 Assignments to Aeronautical Stations in the Aeronautical Mobile
 (R) Service in the bands allocated exclusively to that Service
 between 2850 and 22 000 kHz (see No. 500).

MOD 589 § 30 (1) Frequency Bands allocated exclusively to the
 Aeronautical Mobile (R) Service between 2850 and 22 000 kHz.

MOD 27/128 Sub-Area 6B

From the point $39^{\circ}49'41''\text{N } 124^{\circ}10'06''\text{E}$, through the points $39^{\circ}31'51''\text{N } 124^{\circ}06'31''\text{E}$, $39^{\circ}\text{N } 124^{\circ}\text{E}$ to the point $32^{\circ}30'\text{N } 124^{\circ}\text{E}$. Between the point $32^{\circ}30'\text{N } 124^{\circ}\text{E}$ and the point $25^{\circ}\text{N } 123^{\circ}\text{E}$, the limit of this sub-area is undefined. From the point $25^{\circ}\text{N } 123^{\circ}\text{E}$, through the points $21^{\circ}\text{N } 121^{\circ}30'\text{E}$, $20^{\circ}\text{N } 120^{\circ}\text{E}$, $20^{\circ}\text{N } 176^{\circ}\text{W}$, $50^{\circ}\text{N } 164^{\circ}\text{E}$, $43^{\circ}\text{N } 147^{\circ}\text{E}$, thence west between the territorial waters of Japan and the USSR and along the border between the Democratic People's Republic of Korea and USSR, and then the border between China and the Democratic People's Republic of Korea, to the point $39^{\circ}49'41''\text{N } 124^{\circ}10'06''\text{E}$.

NOC 27/129

MOD 27/130 Sub-Area 6D

From the junction of the borders of China, India and Burma, south along the India-Burma and Bangladesh-Burma borders to the Bay of Bengal. Along the coast of Burma to its southernmost point, then to Weh Island (off the north coast of Sumatra). Then to the point $02^{\circ}\text{S } 92^{\circ}\text{E}$, and through the point $10^{\circ}\text{S } 92^{\circ}\text{E}$ to $10^{\circ}\text{S } 110^{\circ}\text{E}$. Then eastward to $10^{\circ}\text{S } 141^{\circ}\text{E}$ extending northward to $0^{\circ} 141^{\circ}\text{E}$ and then to $04^{\circ}\text{N } 130^{\circ}\text{E}$ through the point $20^{\circ}\text{N } 130^{\circ}\text{E}$ to $20^{\circ}\text{N } 113^{\circ}\text{E}$. Thence, south around the Island of Hainan, and along the China-Viet-Nam, China-Laos and China-Burma borders to close the sub-area at the junction of the borders of China, India and Burma.

ADD 27/132A Sub-Area 6G

From the point $32^{\circ}30'N$ $124^{\circ}E$ northward to $39^{\circ}N$ $124^{\circ}E$, $39^{\circ}31'51"N$ $124^{\circ}06'31"E$ then to $39^{\circ}49'41"N$ $124^{\circ}10'06"E$ on the border between the People's Republic of China and the Democratic People's Republic of Korea. Then along the border of the People's Republic of China to the junction of the border with India and Burma. Thence southward along the India-Burma and Bangladesh-Burma borders to the Bay of Bengal. Along the coast of Burma to its southernmost point. Then to Weh Island (off the north coast of Indonesia). Then to the point $02^{\circ}S$ $92^{\circ}E$ and through the point $10^{\circ}S$ $92^{\circ}E$ to $10^{\circ}S$ $110^{\circ}E$. Then eastward to $10^{\circ}S$ $141^{\circ}E$ extending northward to $00^{\circ}141^{\circ}E$ and then to $04^{\circ}N$ $130^{\circ}E$ through the point $20^{\circ}N$ $130^{\circ}E$ to $20^{\circ}N$ $120^{\circ}40'E$. Thence northward to the points $21^{\circ}N$ $121^{\circ}30'E$ and $25^{\circ}N$ $123^{\circ}E$. Between the points $25^{\circ}N$ $123^{\circ}E$ and the point $32^{\circ}30'N$ $124^{\circ}E$, the limit of this Sub-Area is undefined.

In the area where Sub-Areas 6D, 6F and 6G are common, the frequencies allotted to Sub-Area 6G will be used only by the aeronautical stations of the People's Republic of China; the frequencies allotted to Sub-Areas 6D and 6F will be used only by the aeronautical stations of the other Administrations in the common area. Also in this common area, the domestic flights of the People's Republic of China will be within the area defined by a line starting at $21^{\circ}32'53"N$ $108^{\circ}E$ and through the points $20^{\circ}N$ $108^{\circ}E$, $20^{\circ}N$ $107^{\circ}E$, $18^{\circ}N$ $107^{\circ}E$, $18^{\circ}N$ $108^{\circ}E$, $15^{\circ}N$ $110^{\circ}E$, $10^{\circ}N$ $110^{\circ}E$, $06^{\circ}N$ $108^{\circ}E$, $03^{\circ}30'N$ $112^{\circ}E$, $04^{\circ}N$ $113^{\circ}E$, $08^{\circ}N$ $116^{\circ}E$, $10^{\circ}N$ $118^{\circ}E$, $14^{\circ}N$ $119^{\circ}E$, $18^{\circ}N$ $119^{\circ}E$ to $20^{\circ}N$ $120^{\circ}40'E$ thence along the limit of Sub-Area 6D to $21^{\circ}32'52"N$ $108^{\circ}E$.



AERONAUTICAL (R) CONFERENCE
GENEVA, 1978

Addendum No. 1 to
Document No. 308-E
2 March 1978

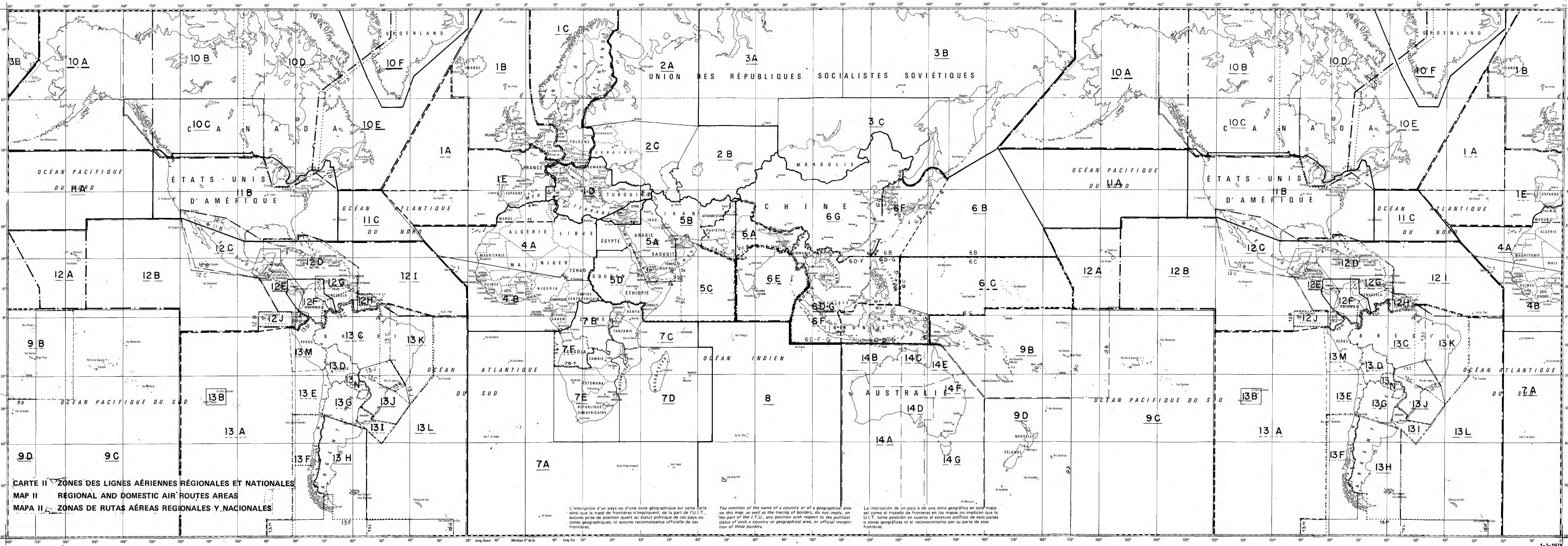
E

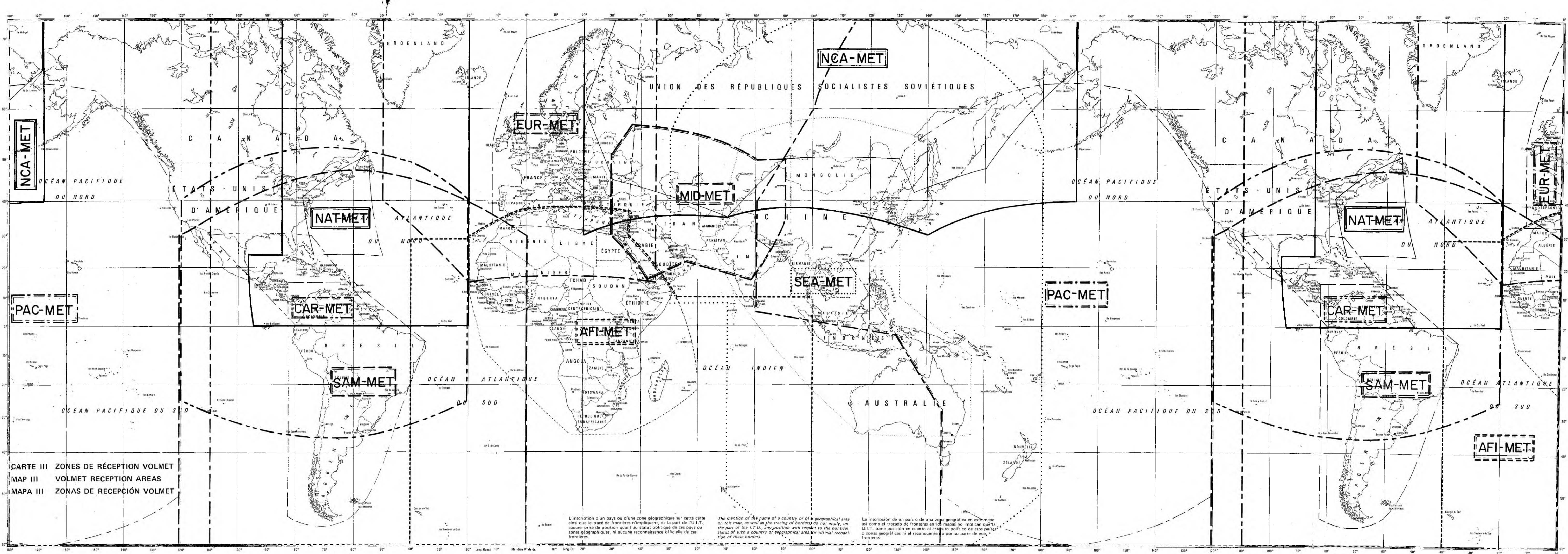
B.6

PLENARY MEETING

6th SERIES OF TEXTS SUBMITTED BY THE
EDITORIAL COMMITTEE TO THE PLENARY MEETING







CARTE III ZONES DE RÉCEPTION VOLMET
MAP III VOLMET RECEPTION AREAS
MAPA III ZONAS DE RECEPCIÓN VOLMET

L'inscription d'un pays ou d'une zone géographique sur cette carte ainsi que le tracé de frontières n'impliquent, de la part de l'U.I.T., aucune prise de position quant au statut politique de ces pays ou zones géographiques, ni aucune reconnaissance officielle de ces frontières.

The mention of the name of a country or of a geographical area on this map, as well as the tracing of borders do not imply, on the part of the I.T.U., any position with regard to the political status of such a country or geographical area, nor official recognition of these borders.

La inscripción de un país o de una zona geográfica en este mapa así como el trazado de fronteras en los mapas no implican que la U.I.T. tome posición en cuanto al estatus político de esos países o zonas geográficas ni el reconocimiento por su parte de esas fronteras.



AERONAUTICAL (R) CONFERENCE
GENEVA, 1978

Document No. 308-E
2 March 1978

E

B.6

PLENARY MEETING

6th SERIES OF TEXTS SUBMITTED BY THE
EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following Maps are submitted to the Plenary Meeting for first reading:

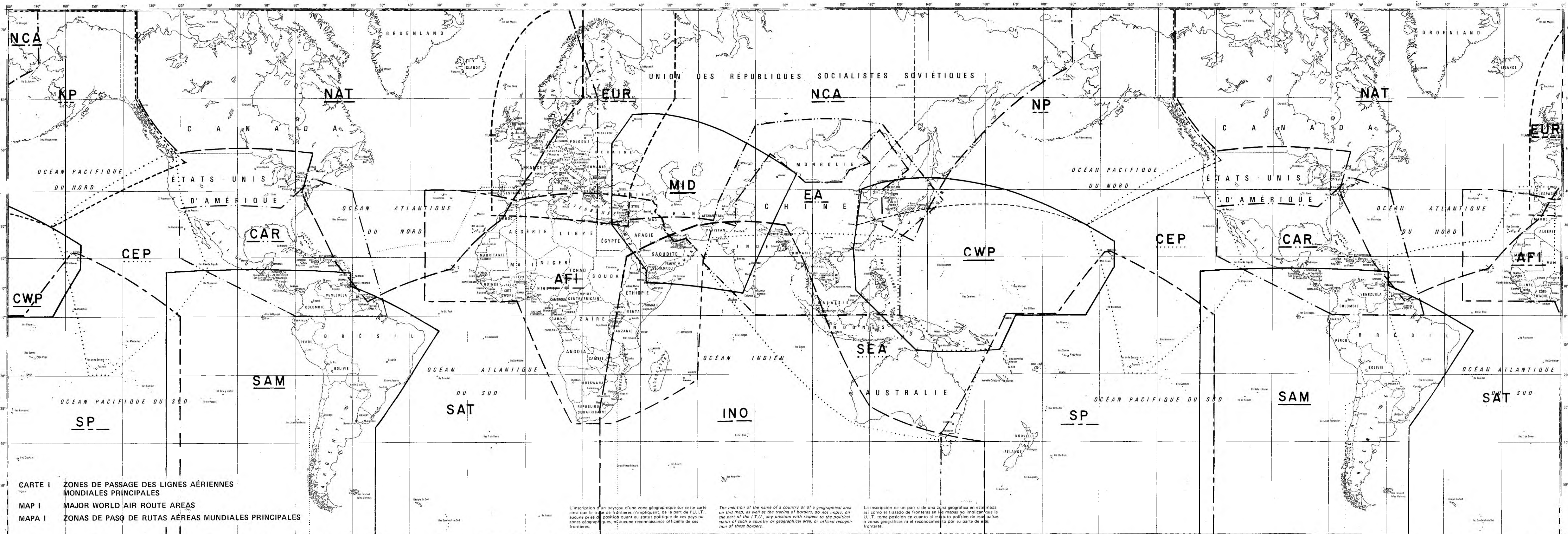
Map I Major World Air Route Areas (MWARAs)
Map II Regional and Domestic Air Routes Areas (RDARAs)*
Map III VOLMET Reception Areas

* In preparation

C.J. DHENIN
Chairman of the
Editorial Committee

Annex: 2 Maps



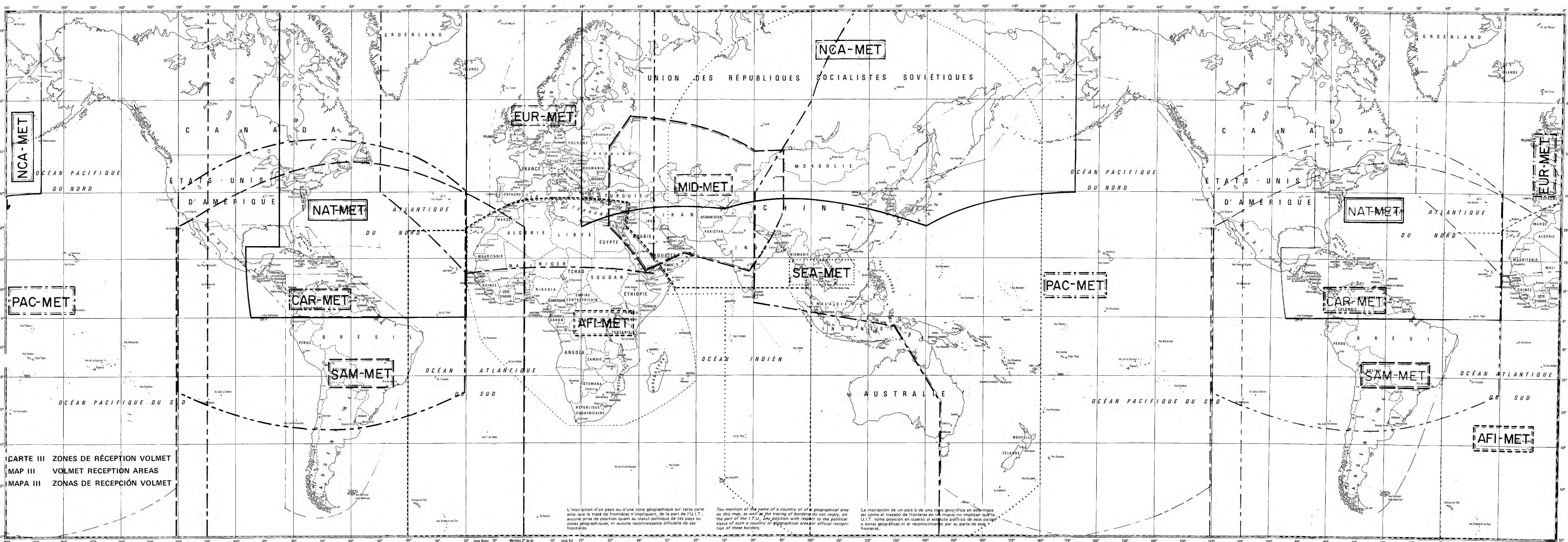


CARTE I ZONES DE PASSAGE DES LIGNES AÉRIENNES MONDIALES PRINCIPALES
MAP I MAJOR WORLD AIR ROUTE AREAS
MAPA I ZONAS DE PASO DE RUTAS AÉREAS MUNDIALES PRINCIPALES

L'inscription d'un pays ou d'une zone géographique sur cette carte ainsi que le tracé de frontières n'impliquent, de la part de l'U.I.T., aucune prise de position quant au statut politique de ces pays ou zones géographiques, ni aucune reconnaissance officielle de ces frontières.

The mention of the name of a country or of a geographical area on this map, as well as the tracing of borders, do not imply, on the part of the I.T.U., any position with respect to the political status of such a country or geographical area, or official recognition of these borders.

La inscripción de un país o de una zona geográfica en este mapa así como el trazado de fronteras en los mapas no implican que la U.I.T. tome posición en cuanto al estatus político de esos países o zonas geográficas ni el reconocimiento por su parte de esas fronteras.



CARTE III ZONES DE RÉCEPTION VOLMET
MAP III VOLMET RECEPTION AREAS
MAPA III ZONAS DE RECEPCIÓN VOLMET

L'inscription d'un pays ou d'une zone géographique sur cette carte ainsi que le tracé de frontières n'impliquent, de la part de l'I.U.I.T., aucune prise de position quant au statut politique de ces pays ou zones géographiques, ni aucune reconnaissance officielle de ces frontières.

The mention of the name of a country or of a geographical area on this map, as well as the tracing of borders do not imply, on the part of the I.U.I.T., any position with respect to the political status of such a country or geographical area, nor official recognition of these borders.

La inscripción de un país o de una zona geográfica en este mapa así como el trazado de fronteras en los mapas no implican que la I.U.I.T. tome posición en cuanto al estatus político de esos países o zonas geográficas ni el reconocimiento por su parte de estas fronteras.



AERONAUTICAL (R) CONFERENCE
GENEVA, 1978

Document No 309-E
2 March 1978

E

R.3

PLENARY MEETING

3rd SERIES OF TEXTS SUBMITTED BY THE
EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for second reading:

<u>Source</u>	<u>Document No.</u>	<u>Title</u>
B.3	246	RR Art. 5, 9, 28 and 35 RR Appendices 1 and 3 Resolutions E, F and G
B.4	285	APPENDIX 27 — Part II — Section II Articles 1 and 2 Recommendations EE and FF Resolution H
B.2	245	Recommendation CC

C.J. DHENIN
Chairman of the
Editorial Committee

Annex: 23 pages



ANNEX 1

**Partial revision of Articles 5, 9, 28 and 35 of the
Radio Regulations and Appendices 1 and 3 to these Regulations**

ARTICLE 5

MOD 201A The frequencies 2182 kHz, 3023 kHz, 5680 kHz, 8364 kHz, 121.5 MHz, 156.8 MHz and 243 MHz may also be used, in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles.

 The same applies to the frequencies 10 003 kHz, 14 993 kHz and 19 993 kHz, but in each of these cases emissions must be confined in a band of ± 3 kHz about the frequency.

MOD 205A The carrier (reference) frequencies 3023 kHz and 5680 kHz may also be used, in accordance with Nos. 1326C and 1353B respectively, by stations of the maritime mobile service engaged in coordinated search and rescue operations.

ARTICLE 9

ADD 553A a) the notice is in conformity with the provisions of No. 501;

(MOD) 557 Plan 1

ADD 557A (2A) A notice which is not in conformity with the provisions of No. 553A shall be examined with respect to Nos. 520 and 521. The date to be entered in Column 2B shall be determined in accordance with the relevant provisions of Section III of this Article.

MOD 558 (3) In the case of a notice in conformity with the provisions of Nos. 553A to 556, but not with those of No. 557, the Board shall examine whether the protection specified in Appendix 27 Aer2 (Part I, Section IIA, paragraph 5) is afforded to the allotments in the Plan. In doing so, the Board shall assume that the frequency will be used in accordance with the "Sharing conditions between areas" specified in Appendix 27 Aer2, Part I, Section IIB, paragraph 4.

ARTICLE 28

MOD **969A** (3) The aeronautical carrier (reference) frequencies 3023 kHz and 5680 kHz may be used by mobile stations for search and rescue scene-of-action coordination purposes, including communication between these stations and participating land stations, in accordance with any special arrangements by which the aeronautical mobile service is regulated (see Nos. **1326C** and **1353B**).

ARTICLE 35

MOD **1326C** The aeronautical carrier (reference) frequency 3023 kHz may be used for intercommunication between mobile stations when engaged in coordinated search and rescue operations, including communication between these stations and participating land stations, in accordance with the provisions of Appendix 27 Aer2.

MOD **1353B** 15A. The aeronautical carrier (reference) frequency 5680 kHz may be used for intercommunication between mobile stations when engaged in coordinated search and rescue operations, including communication between these stations and participating land stations, in accordance with the provisions of Appendix 27 Aer2.

APPENDIX 1

Paragraph 3 on page AP1-15 of the Radio Regulations (1976 Edition) has been replaced by the following text:

MOD

3. In any case where there are one or more reference frequencies in a particular transmission (e.g. in the case of (a) the frequency of the reduced carrier in an independent or single-sideband emission, and (b) the frequencies of the sound and vision carriers in a television emission), such reference frequencies shall be supplied. In the case of television broadcasting stations in Region 1, each notice shall include, as supplementary information, both the frequency of the other carrier and the assigned frequency.

APPENDIX 3

Mar Mar2 Aer2

The following modifications were made to Appendix 3 to the Radio Regulations:

Table of frequency tolerances*

(See Article 12)

Frequency bands (lower limit exclusive, upper limit inclusive) and Categories of stations	Tolerances applicable until 1st January, 1966*) to transmitters in use and to those to be installed before 1st January, 1964	Tolerances applicable to new transmitters installed after 1st January, 1964 and to all transmitters after 1st January, 1966*
	*) 1st January, 1970 in the case of all tolerances marked with an asterisk	
.....		
Band : 1 605 to 4 000 kHz		
.....		
2. Land stations		
- power 200 W or less	100	100 h) 1) <u>r</u>)
- power above 200 W	50	50 h) 1) <u>r</u>)
3. Mobile stations		
.....		
c) Aircraft stations	200*	100* r)
Band : 4 to 29.7 MHz		
.....		
2. Land stations :		
.....		
b) Aeronautical stations :		
- power 500 W or less	100	100 <u>r</u>)
- power above 500 W	50	50 <u>r</u>)
.....		
3. Mobile stations :		
.....		
c) Aircraft stations	200*	100* r)

ADD

r) For single-sideband transmitters operating in the frequency bands 1605-4000 kHz and 4-29.7 MHz which are allocated exclusively to the aeronautical mobile (R) service, the tolerance on the carrier (reference) frequency is:

- | | |
|---|----------|
| 1. for all aeronautical stations | 10 Hz |
| 2. for all aircraft stations operating on international services | 20 Hz |
| 3. for aircraft stations operating exclusively on national services | 50 Hz ** |

** Note: In order to achieve maximum intelligibility it is suggested that administrations encourage the reduction of this tolerance to 20 Hz.

RESOLUTION No. Aer2 - E

**Relating to the implementation of the new arrangement
applicable to bands allocated exclusively to
the aeronautical mobile (R) service between
2850 and 17 970 kHz**

The World Administrative Radio Conference on the Aeronautical Mobile (R) Service, Geneva, 1978,

considering

a) that the use of each of the frequency bands between 2850 and 17 970 kHz allocated exclusively to the aeronautical mobile (R) service by the Administrative Radio Conference, Geneva, 1959, was modified by the Extraordinary Administrative Radio Conference, Geneva, 1966;

b) that the 1966 Conference resolved that administrations shall effect, as soon as possible, a progressive conversion of their radiocommunications in the aeronautical mobile (R) service from double-sideband to single-sideband operation, in consequence of which the use of the above bands has been further modified by the present Conference to provide for SSB techniques;

c) that a considerable number of frequency assignments of both aircraft and aeronautical stations will be transferred from existing frequencies to the new frequencies and channels designated by the present Conference;

d) that changes in frequency assignments should be made as soon as possible so that the advantages of the new channels designated by the present Conference may be realized at the earliest opportunity;

e) that the transfer of assignments should be made with the least possible disruption of the service rendered by each station;

f) that the transfer of assignments should be made so as to avoid harmful interference between the stations involved during the implementation period;

g) that the Final Acts of the present Conference will enter into force on 1 September 1979;

h) that the revised Frequency Allotment Plan contained in Appendix 27 Aer2 will enter into force on 1 February 1983;

recognizing

a) that the aeronautical mobile (R) service is primarily a safety service;

b) that some frequencies have been allotted for world-wide use;

c) that the implementation of the decisions made by the present Conference relating to the new arrangement of the frequency bands allocated to the aeronautical mobile (R) service between 2850 and 17 970 kHz should follow an orderly procedure for the transfer of existing services from the old to the new assignments;

resolves

1. that between the entry into force of the Final Acts of this Conference on 1 September 1979 and the entry into force of the new Frequency Allotment Plan contained in Appendix 27 Aer2 on 1 February 1983, channel utilization for any new SSB operation shall be in accordance with the following provisions:

1.1 the carrier (reference) frequency of the single-sideband channel in the upper half of the previous double-sideband channel shall be the same as the carrier (reference) frequency of that channel;

1.2 the carrier (reference) frequency of the single-sideband channel in the lower half of the previous double-sideband channel shall be 3 kHz lower than the carrier (reference) frequency of that channel;

1.3 that, prior to 1 February 1983, aeronautical and aircraft stations fitted with single-sideband equipment may employ either half of the previous double-sideband channel (the single-sideband carrier (reference) frequency being that in 1.1 and 1.2 above);

1.4 channels in the new Plan may be used by any administration provided that no harmful interference occurs to users of channels in the present Plan. For the operational use of the channels concerned administrations should take into account the provisions of No. 27/20 of Appendix 27 Aer2 of the Radio Regulations;

2. that on 1 February 1983, the frequencies appearing in Appendix 27 to the Radio Regulations, shall be replaced by the frequencies appearing in Part II, Section II, Article 2, Appendix 27 Aer2;
3. that administrations take all the necessary measures with a view to converting to single-sideband operation as soon as possible by not permitting the installation of new double-sideband equipment as from 1 April 1981. Aircraft and aeronautical stations shall be capable of single-sideband operation at the earliest possible date; furthermore, they shall discontinue double-sideband emissions as early as possible, and, in any event, not later than 1 February 1983;
4. that, until 1 February 1983, aeronautical and aircraft stations equipped for single-sideband operation shall also be equipped to transmit class A3H emissions where required to be compatible with reception by double-sideband equipment;
5. that, unless otherwise specified in the Final Acts of the present Conference, the use of classes of emissions A2H, A3J, A7J and A9J only shall be authorized as of 1 February 1983. Double-sideband operations may, however, be continued for domestic use until 1 February 1987, provided this operation is conducted in accordance with Nos. 667 and 674 of the Radio Regulations and that no harmful interference is caused to the international aeronautical mobile (R) service operating in the single-sideband mode. Administrations requiring such an extension of the period of full implementation of single-sideband operations are, nevertheless, urged to cease double-sideband operations as soon as possible.

RESOLUTION No. Aer2 - F

**Relating to the treatment of notices concerning frequency
assignments to aeronautical stations in the bands allocated
exclusively to the aeronautical mobile (R) service
between 2850 and 17 970 kHz**

The World Administrative Radio Conference on the Aeronautical
Mobile (R) Service, Geneva, 1978,

considering

a) that the Final Acts of the present Conference will
enter into force on 1 September 1979;

b) that the revised Frequency Allotment Plan contained
in Appendix 27 Aer2 will enter into force at 0001 hours GMT
on 1 February 1983;

c) that some administrations may wish to implement
certain provisions of the revised Frequency Allotment Plan in
advance of the latter date when this may be done without causing
harmful interference to stations operating in accordance with the
present Frequency Allotment Plan;

d) that it will therefore be necessary to provide an
interim procedure to facilitate transition from the existing
Frequency Allotment Plan to the revised Frequency Allotment Plan;

resolves

1. that during the interim period between the date of entry
into force of the Final Acts and the date of entry into force of
the revised Frequency Allotment Plan:

1.1 the provisions of Nos. 553 to 558 of the Radio Regulations
shall continue to be applied in the examination of notices concerning
frequency assignments to aeronautical stations in the aeronautical
mobile (R) service in the allotments of the existing Plan;

1.2 all such assignments shall be recorded in the Master
International Frequency Register in accordance with the findings
reached by the IFRB;

1.3 frequency assignments in a channel of the revised Plan shall be examined by the IFRB in order to determine whether the protection specified in Appendix 27 Aer2 (Part I, Section IIA, paragraph 5) is afforded to the allotments in the existing Plan. In so doing, the Board shall assume that the frequency will be used in accordance with the sharing conditions between areas specified in Appendix 27 Aer2, Part I, Section IIB, paragraph 4;

1.4 all such assignments mentioned in paragraph 1.3 having received a favourable finding shall be recorded in the Master International Frequency Register;

1.5 the date to be entered in Column 2a or 2b of the Master International Frequency Register shall be as follow:

- a) if the finding is favourable with respect to Nos. 554 to 557, the date of 29 April 1966 shall be entered in Column 2a;
- b) if the finding is favourable with respect to No. 558, the date of 29 April 1966 shall be entered in Column 2b;
- c) for all other assignments (including those which may be in conformity with the revised Frequency Allotment Plan but not in conformity with the present Frequency Allotment Plan) the date of receipt of the notice by the IFRB shall be entered in Column 2b;

1.6 any assignment which is in accordance with the revised Frequency Allotment Plan shall be so indicated by the insertion by the IFRB of an appropriate symbol in the Remarks Column of the Master International Frequency Register;

2. that on the date of the entry into force of the new Frequency Allotment Plan, the IFRB shall examine those frequency assignments to aeronautical stations in the aeronautical mobile (R) service in the bands allocated exclusively to that service between 2850 and 17 970 kHz which are contained in the Master International Frequency Register from the point of view of their conformity with the revised Frequency Allotment Plan, following the relevant parts of the procedure described in Nos. 553 to 558 of the Radio Regulations, and shall record against them in the Master International Frequency Register a date in Column 2a or 2b as follows:

2.1 assignments with double-sideband emissions (A3) already appearing in the Master Register on the date of the entry into force of the revised Frequency Allotment Plan shall retain the date recorded in Column 2a or 2b, as appropriate, until 1 February 1983. A date in Column 2a for a frequency assignment using double-sideband emissions (A3) shall be transferred to Column 2b on 2 February 1983. On 1 January 1987 the IFRB shall review the entries and, in consultation with the administrations concerned, cancel those entries which are no longer in use, retaining the others for information only, without a date in Column 2b;

2.2 assignments found favourable with respect to Nos. 553A to 557 shall have the date of the signing of the Final Acts of the present Conference entered in Column 2a;

2.3 assignments found favourable with respect to Nos. 553A and 558 shall have the date of the signing of the Final Acts of the present Conference entered in Column 2b;

2.4 all other assignments shall have the day AFTER the date of the signing of the Final Acts of the present Conference entered in Column 2b;

3. that, on the date of the entry into force of the revised Frequency Allotment Plan, the allotments contained therein shall replace in the Master International Frequency Register the allotments appearing in the existing Frequency Allotment Plan;

invites

Administrations to notify to the IFRB as soon as possible the cancellation of frequency assignments released as a consequence of bringing into use the allotments in the revised Plan.

RESOLUTION No. Aer2 - G

**Relating to the implementation of the Frequency
Allotment Plan in the bands allocated
exclusively to the aeronautical mobile (R) service
between 2850 and 17 970 kHz**

The World Administrative Radio Conference on the Aeronautical Mobile (R) Service, Geneva, 1978,

considering

- a) that the bands allocated exclusively to the aeronautical mobile (R) service between 2850 and 17 970 kHz by the Administrative Radio Conference, Geneva, 1959, were modified by the Extraordinary Administrative Radio Conference, Geneva, 1966;
- b) that the Extraordinary Administrative Radio Conference, Geneva, 1966, established procedures to be followed by administrations relating to the implementation of the modifications;
- c) that the necessary arrangements were made for the IFRB to carry out these procedures;

recognizing

- a) that the aeronautical mobile (R) service is primarily a safety service;
- b) that the present Conference has further modified the said bands to provide for single-sideband techniques;
- c) that there is a need for all administrations to implement the modifications made by the present Conference with a view to avoiding any harmful interference to the services rendered by stations operating in accordance with the Radio Regulations;

resolves

1. that, not later than ninety days before the entry into force of the new Plan, administrations shall notify the IFRB of the modifications necessary to bring the assignments existing in the Master Register into conformity with this Plan;
2. that the assignments existing in the Master Register on 1 February 1983 which are not in conformity with the decisions of the present Conference on that date shall be treated as follows:

2.1 within 30 days from 1 February 1983, the IFRB will send relevant extracts from the Master Register to the administrations concerned advising them that, in accordance with the terms of the present Resolution, the assignments in question are to be transferred to the appropriate frequencies within a period of 180 days after the dispatch of the extracts;

2.2 if an administration fails to notify the IFRB of the transfer within the prescribed period, the original entry will be retained in the Master Register without a date in Column 2 and with a suitable remark in the Remarks Column. The administrations will be advised of this action;

3. that, if an administration so desires, the IFRB will provide it with all necessary assistance. In so doing, the IFRB will apply the provisions of Nos. 629 to 633 of the Radio Regulations.

[PART II]

Section II

(MOD)

Allotment of Frequencies in the
Aeronautical Mobile (R) Service

ARTICLE 1

MOD 27/186

Frequency Allotment Plan by Areas

Notes:

NOC 27/187

MOD 27/188

- b) The following list does not include the world-wide common (R) and (OR) frequencies of 3023 and 5680 kHz. The allotment of these frequencies is shown in Article 2.
-

ARTICLE 2

NOC

Frequency Allotment Plan
(in numerical order of frequencies)General Notes:

MOD 27/192

1. Class of stations: FA.

Classes of emission: see Nos. 27/49-27/52.

Power: Unless otherwise indicated in the Plan, the power values for aeronautical and aircraft stations are those shown in Nos. 27/54-27/62.

Hours: H24 unless otherwise indicated.

MOD 27/193

2. A frequency allotted on a "day-time basis" may be used during the period one hour after sunrise to one hour before sunset.

MOD 27/194 A "common channel" is a channel allotted in common to two or more areas within interference distance of each other and its use is subject to agreement between the administrations concerned.

ADD 27/194A The world-wide frequency allotments appearing in the tables at [No. 27/189 and Nos. 27/195 to 27/207], except for carrier (reference) frequencies 3023 kHz and 5680 kHz, are reserved for assignment by administrations to stations operating under authority granted by the administration concerned for the purpose of serving one or more aircraft operating agencies. Such assignments are to provide communications between an appropriate aeronautical station and an aircraft station anywhere in the world for exercising control over regularity of flight and for safety of aircraft. World-wide frequencies are not to be assigned by administrations for MWARA, RDARA and VOLMET purposes. Where the operational area of an aircraft lies wholly within a RDARA or Sub-RDARA boundary, frequencies allotted to those RDARAs and Sub-RDARAs shall be used.

.....

	1	2	3
MOD 27/196	3 023	World-wide, (R) and (OR)	See Art. 3
MOD 27/201	5 680	World-wide, (R) and (OR)	See Art. 3

.....

RECOMMENDATION No. Aer2 - EE

**Relating to the transition from the existing to
the revised Frequency Allotment Plan in the
bands allocated exclusively to the
aeronautical mobile (R) service between 2850
and 17 970 kHz**

The World Administrative Radio Conference on the
Aeronautical Mobile (R) Service, Geneva, 1978,

considering

a) that the Final Acts of this Conference will enter into
force on 1 September 1979;

b) that the revised Frequency Allotment Plan contained in
Appendix 27 Aer2 will enter into force at 0001 hours GMT on
1 February 1983;

c) that some administrations may wish to implement certain
provisions of the revised Frequency Allotment Plan in advance
of the latter date when this may be done without causing
harmful interference to stations working in accordance with
the present Frequency Allotment Plan;

d) that, following the Extraordinary Administrative Radio
Conference, Geneva, 1966, the International Civil Aviation
Organization (ICAO), under the provisions of No. 27/20 of
Appendix 27 and within the spirit and framework of
Resolution No. Aer6 of that Conference, developed a
transition programme for the aeronautical mobile (R) service
to convert the Frequency Allotment Plan in Appendix 26 to
that in Appendix 27;

e) that the ICAO transition programme was subsequently
provided to the International Frequency Registration Board
for distribution to ITU member administrations;

f) that it will be useful again to adopt a programme
to facilitate transition from the existing to the revised
Frequency Allotment Plan;

recommends

1. that the International Civil Aviation Organization be
invited to develop a transition programme, within the
framework of Appendix 27 Aer2, for the operational use by
aeronautical stations of the frequencies contained in the
Frequency Allotment Plan except for those RDARAs which are
not involved in international operations;

2. that the International Civil Aviation Organization be invited to forward the transition programme for the revised Frequency Allotment Plan to the International Frequency Registration Board for distribution to administrations;

3. that administrations implement the provisions of the transition programme in coordination with ICAO and in conformity with the principles set forth in No. 27/20;

requests

the Secretary-General to bring this Recommendation to the attention of the International Civil Aviation Organization.

RECOMMENDATION No. Aer2 - FF

**Relating to the concordance of the French,
English and Spanish texts of No. 429
of the Radio Regulations**

The World Administrative Radio Conference on the
Aeronautical Mobile (R) Service, Geneva, 1978,

considering

- a) that doubts have been expressed concerning the concordance of the expressions "régularité de la navigation aérienne" in French, "regularity of flight" in English and "regularidad de la navegación aérea" in Spanish;
- b) that this phrase originates from the Convention on International Civil Aviation, Chicago, 1944, drafted in English;
- c) that it is essential that the three texts be equivalent in form and content;
- d) that its terms of reference do not include the revision of No. 429 of the Radio Regulations;

recommends

that the World Administrative Radio Conference, 1979, should endeavour to overcome this apparent lack of concordance in the texts of No. 429 of the Radio Regulations.

RESOLUTION No. Aer2 - H

**Relating to the abrogation of various Resolutions and a
Recommendation of the Extraordinary Administrative Radio
Conference, Geneva, 1966, and a Resolution of the
Administrative Radio Conference, Geneva, 1959**

The World Administrative Radio Conference on the Aeronautical
Mobile (R) Service, Geneva, 1978,

considering

a) that the following Resolutions and Recommendation of
the Extraordinary Administrative Radio Conference, Geneva, 1966,
were superseded as indicated:

Resolution No. Aer 1 relating to the use of frequencies 3023.5
and 5680 kHz common to the aeronautical mobile (R) and (OR)
services, by Resolution No. Aer2 - D.

Resolution No. Aer 2 relating to the use of frequencies in
the HF bands allocated exclusively to the aeronautical
mobile (R) service, by Resolution No. Aer2 - A;

Resolution No. Aer 4 relating to the use of VHF for
communication in the aeronautical mobile (R) service, and
Resolution No. Aer 5 relating to the use of VHF for
meteorological broadcasts in the aeronautical mobile (R)
service, by Resolution No. Aer2 - C;

Resolution No. Aer 6 relating to the treatment of notices
concerning frequency assignments to aeronautical stations in
the aeronautical mobile (R) service in the bands allocated
exclusively to that service between 2850 and 17 970 kHz, by
Resolution No. Aer2 - F;

Recommendation No. Aer 1 relating to the development of
techniques which would help to reduce congestion in the high
frequency bands allocated to the aeronautical mobile (R)
service, by Recommendation No. Aer2 - AA;

b) that Resolution No. 14 of the Administrative Radio Conference, Geneva, 1959, relating to the use of frequencies of the aeronautical mobile (R) service, was replaced by Resolution No. Aer2 - B;

c) that Resolution No. Aer 3 of the Extraordinary Administrative Radio Conference, Geneva, 1966, relating to the introduction of single sideband techniques in the HF bands allocated to the aeronautical mobile (R) service is now obsolete;

resolves

that all the said Resolutions and the Recommendation are abrogated.

RECOMMENDATION No. Aer2 - CC

**relating to the inclusion of the band
[21,870-22,000] kHz in the Frequency
Allotment Plan for the aeronautical mobile
(R) service (Appendix 27 Aer2
to the Radio Regulations)**

The World Administrative Radio Conference on the
Aeronautical Mobile (R) Service, Geneva, 1978,

considering

a) that there is a need to add a further
frequency band to Appendix 27 Aer2, to provide world-wide
frequencies suitable for long-range communications and to
reduce congestion in the bands currently used;

b) that there is a suitable band at
[21,870-22,000] kHz at present allocated to the aeronautical
fixed and aeronautical mobile (R) services;

c) that if the band were to be allocated
exclusively to the aeronautical mobile (R) service it could
be incorporated into Appendix 27 Aer2;

d) that the decision to re-allocate the band
could be taken by the World Administrative Radio
Conference, 1979;

e) that the decision to incorporate a plan for
the band into Appendix 27 Aer2 could be taken by the
World Administrative Radio Conference, 1979;

has established

a plan for the band [21,870-22,000] kHz with the
relevant associated provisions for modifying the procedures of
Appendix 27 Aer2 and related Radio Regulations
(see Annex);

recommends

1. that the World Administrative Radio Conference,
1979, should consider the allocation of the band
[21,870-22,000] kHz exclusively to the aeronautical
mobile (R) service to meet the requirements mentioned
in considering a) above;

2. that, if the World Administrative Radio Conference, 1979 decides on such a re-allocation, it should include the plan for this band with the associated provisions in Appendix 27 Aer2 as an integral part thereof, to come into force on 1 February, 1983, and should make the necessary consequential changes to the Radio Regulations;

urges Administrations

to submit proposals to this effect to the World Administration Radio Conference, 1979.

ANNEX TO RECOMMENDATION Aer2 - CC

**Outline of changes to be made to
Appendix 27 Aer2 and related Radio Regulations**

APPENDIX 27

- Page 3 Table of Contents, Part II, in the title in italics, delete 17,970 kHz, substitute the upper edge of the new exclusive band [] kHz, [to be decided by Committee 5].
- No. 27/16 Insert the following new frequencies in the Table of Frequencies, [the frequencies to be indicated by Committee 5].
- No. 27/31A In the title preceding the number 27/31A, replace «bands 13 and 18 MHz» by «band between 13 and 22 MHz»;
- in the text, replace «for the 13 and 18 MHz bands» by «for the 13 MHz, 18 MHz and 22 MHz bands».
- No. 27/31B In the second line, replace «18 MHz» by «the 18 MHz and 22 MHz bands»;
- add «and 22 MHz» after «18 MHz» in the 5th line.
- Page 25 Part II, amend title as indicated above for Table of Contents.
- No. 27/189 Set out a new column for the new band to be added to the Table.
- No. 27/207A Add a new Table for the new band.

RADIO REGULATIONS

Modify the Table of Frequency Allocations for the band 21,870-22,000 kHz in Article 5 to show the new exclusive allocation to the aeronautical mobile (R) service.

RR431 delete 18,030 kHz, substitute
upper edge of band limit, [to be decided by
Committee 5].

RR552 delete 17,970 kHz, substitute
upper edge of band limit, [to be decided by
Committee 5].

RR589 delete 17,970 kHz as above.

INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 310-E

1 March 1978

Original : Spanish

PLENARY MEETING

FINAL PROTOCOL

For the Republic of Guatemala :

The Delegation of the Republic of Guatemala to the World Administrative Radio Conference on the Aeronautical Mobile (R) Service reserves its Government's right with regard to No. MOD 27/9 of Appendix 27 Aer 2 (1978) to the Radio Regulations, and concerning the reservations, provisions and procedures whose application may affect its radiocommunication services.

Nevertheless, in the interest of international cooperation, it reaffirms its intention to observe the provisions contained in the said Regulations so far as possible.



INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 311-E

1 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the Algerian Democratic and Popular Republic, the Kingdom of Saudi Arabia, the State of Bahrain, the People's Republic of Bangladesh, the State of Kuwait, Libya (Socialist People's Libyan Arab Jamahiraya), the Kingdom of Morocco, the Islamic Republic of Mauritania, the Islamic Republic of Pakistan, the State of Qatar, the Syrian Arab Republic, Tunisia, the Arab Republic of Yemen, and the People's Democratic Republic of Yemen :

The delegations of the above-mentioned countries declare that the signature and possible subsequent ratification by their respective Governments of the Final Acts of the World Administrative Radio Conference for the Aeronautical Mobile (R) Service (Geneva, 1978) do not in any way imply the recognition of Israel.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 312-E

1 March 1978

Original : Spanish

PLENARY MEETING

FINAL PROTOCOL

For Chile :

In signing the Final Acts, the Delegation of the Republic of Chile declares that its Government accepts no obligation with respect to Appendix 27 Aer 2 1978 governing the Aeronautical Mobile (R) Service or the associated provisions or application procedures which may affect its telecommunication services.

Nevertheless, the Republic of Chile will observe the provisions of Appendix 27 Aer 2 and the application procedures so far as possible, while reserving the right to adopt such measures as it sees fit to safeguard its aeronautical radiocommunications.



INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 313-E

1 March 1978

Original : Spanish

PLENARY MEETING

FINAL PROTOCOL

For Ecuador :

In signing the Final Acts of the World Administrative Radio Conference on the Aeronautical Mobile (R) Service (Geneva, 1978), the Delegation of the Republic of Ecuador reserves its Government's right to accept or refuse any obligation arising from those provisions and procedures of the Final Acts of the said Conference or from the reservations entered by any other country that may prejudice the proper operation of its telecommunication services, and to take any action that may be necessary to safeguard the country's interests with regard to the Aeronautical Mobile Service.



INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 314-E

1 March 1978

Original : French

PLENARY MEETING

FINAL PROTOCOL

For the Algerian Democratic and Popular Republic :

The Delegation of the Algerian Democratic and Popular Republic to the World Administrative Radio Conference on the Aeronautical Mobile (R) Service reserves its Government's right to take any action it may consider necessary to safeguard its interests with respect to any provision of the Final Acts of the said Conference that might prejudice the proper operation of its telecommunication services.



INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 315-E
1 March 1978
Original: English
French
Spanish

PLENARY MEETING
COMMITTEE 7

SIXTH AND LAST REPORT OF COMMITTEE 6

The text of the Recommendation relating to the cooperation in the efficient use of world-wide frequencies in Aeronautical Mobile (R) Service, unanimously adopted by Committee 6, is annexed herewith.

The Committee, also, invited Committee 7 to align the French and Spanish version of the Recommendation with the English text.

R.J. BUNDLE
Chairman of Committee 6

Annex



ANNEX

RECOMMENDATION Aer2 -

Relating to cooperation in the efficient use
of world-wide frequencies in the Aeronautical Mobile (R) Service

The World Administrative Radio Conference on the Aeronautical
Mobile (R) Service, Geneva, 1978,

considering

- a) the need to make the most efficient use of aeronautical mobile (R) world-wide frequencies;
- b) that a plan has been adopted for the allotment by areas of world-wide frequencies in the Aeronautical Mobile (R) Service;
- c) the desirability of coordination between administrations within the areas to which the allotment plan applies;
- d) the right of a country to select and notify to the I.F.R.B. for recording in the Master International Frequency Register any frequency assignment in a channel allotted to the area in which that country is located;
- e) the role played by the I.F.R.B. in the regulatory procedures in Article 9 of the Radio Regulations;
- f) the role played by ICAO in the field of international aeronautical operations;

invites

1. administrations within an allotment plan area as they consider it appropriate and the International Civil Aviation Organization to seek the advice of the I.F.R.B. in determining the best choice of frequencies from a technical viewpoint in order to make the most efficient use of Aeronautical mobile (R) world-wide frequencies.
2. administrations within an allotment plan area as they consider it appropriate to mutually coordinate the use of these frequencies from the viewpoint of aeronautical operations and in this connection to bear in mind the benefit that could be gained by obtaining the advice of ICAO in this process;
3. the I.F.R.B. to assist any administration or group of administrations in an allotment plan area wishing to coordinate their requirements for world-wide frequencies and to continue its cooperation with ICAO for this purpose.

requests

the Secretary-General to bring this Recommendation to the attention
of the International Civil Aviation Organization.

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 316-E

1 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the People's Republic of Bangladesh :

In signing the Final Acts, the Delegation of the People's Republic of Bangladesh reserves the right of its Government to take any action it may deem necessary to safeguard its interest while adhering to the provisions of 27/9 (Rev. 1978) of Appendix 27 to the Radio Regulations.

The Delegation further reaffirms the position as expressed in Final Protocol No. XVII of the International Telecommunication Convention (Malaga - Torremolinos, 1973).



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 317-E

1 March 1978

Original : French

PLENARY MEETING

FINAL PROTOCOL

For the Syrian Arab Republic :

In signing the Final Acts of the World Administrative Radio Conference on the Aeronautical Mobile (R) Service, 1978, the Delegation of the Syrian Arab Republic, while reaffirming its support for international cooperation in the field of telecommunications, reserves its Government's right to take any action it may consider necessary to authorize or prohibit the operation of aircraft stations on the ground in the Syrian Arab Republic in order to safeguard the interests of its telecommunication services.



INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 318-E

1 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For Ethiopia :

In signing the Final Acts of the World Administrative Radio Conference for the Aeronautical Mobile (R) Service, 1978, the Delegation of Ethiopia states that it reserves the right of its Government to take any actions needed to safeguard its interests if any country fails to abide the provisions of the Final Acts and the associated Plan.



INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 319-E

1 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the Federal Republic of Germany, Denmark, Greece, Norway, Sweden and the Confederation of Switzerland :

In signing the Final Acts of the Aeronautical Mobile (R) Conference, Geneva 1978, the delegations mentioned above wish to state the following :

Commencing in 1976, very powerful pulse transmissions from HF stations operating within the territory of the USSR have been causing continued harmful interference over large areas on frequencies in the HF bands, including those allocated to the Aeronautical Mobile (R) Service, and will, if not terminated, be liable to cause harmful interference on frequencies in the new Plan.

The above delegations refer to Article 35 in the Convention and to Resolution No. Aer 2 of the Radio Regulations, and express their great concern about this prolonged violation of the said provisions.

Their Administrations reserve the right to take appropriate measures to protect the Aeronautical Mobile (R) Service, and other radio services, if this harmful interference continues.



INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 320-E

1 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the Republic of Korea :

The Delegation of the Republic of Korea reserves for its Government the right to take such action as it may deem necessary to safeguard its interests in relation to the provisions of the Final Acts of this Conference and with regard to reservations by any country which may jeopardize the telecommunication services of the Republic of Korea.



INTERNATIONAL TELECOMMUNICATION UNION
AERONAUTICAL (R) CONFERENCE
(Geneva, 1978)

Corrigendum 1 to
Document No. 321-E
2 March 1978
Original : French
English
Spanish

PLENARY MEETING
COMMITTEE 7

FOURTH REPORT OF COMMITTEE 5

Subsequent to the preparation of Document No. 321, Committee 5 approved the description of the boundaries of Sub-Areas 6F and 6G; the description of these boundaries appears in revised Annex 3 enclosed. Page 5 of Document No. 321 may be replaced by the text in the enclosure.

M. CHEF
Chairman of Committee 5

Annex : 1



ANNEX

MOD 27/132 Sub-Area 6F

From the point $25^{\circ}\text{N } 123^{\circ}\text{E}$, $21^{\circ}\text{N } 121^{\circ}30'\text{E}$, $20^{\circ}\text{N } 120^{\circ}\text{E}$, $20^{\circ}\text{N } 113^{\circ}\text{E}$, thence south around the Island of Hainan and along the China-Viet-Nam, China-Laos and China-Burma borders to the junction of the borders of China, India and Burma, south along the India-Burma and Bangladesh-Burma borders to the Bay of Bengal. Along the coast of Burma to its southernmost point then to Weh Island (off the north coast of Sumatra). Then to the point $02^{\circ}\text{S } 92^{\circ}\text{E}$ and through the point $10^{\circ}\text{S } 92^{\circ}\text{E}$ to $10^{\circ}\text{S } 110^{\circ}\text{E}$. Then northward along 110°E meridian, and thence along the boundary of Sub-Area 6C to the points $20^{\circ}\text{N } 130^{\circ}\text{E}$, $43^{\circ}\text{N } 147^{\circ}\text{E}$, thence westward between the territorial waters of Japan and the USSR and along the border between the Democratic People's Republic of Korea and the USSR, and then the border between China and the Democratic People's Republic of Korea, to the points $39^{\circ}49'41''\text{N } 124^{\circ}10'06''\text{E}$, $39^{\circ}31'51''\text{N } 124^{\circ}06'31''\text{E}$, $39^{\circ}\text{N } 124^{\circ}\text{E}$ and then $32^{\circ}30'\text{N } 124^{\circ}\text{E}$.

Between the point $32^{\circ}30'\text{N } 124^{\circ}\text{E}$ and the point $25^{\circ}\text{N } 123^{\circ}\text{E}$, the limit of this sub-area is undefined.

ADD 27/132A Sub-Area 6G

From the point $32^{\circ}30'N$ $124^{\circ}E$ northward to $39^{\circ}N$ $124^{\circ}E$, $39^{\circ}31'51"N$ $124^{\circ}06'31"E$ then to $39^{\circ}49'41"N$ $124^{\circ}10'06"E$ on the border between the People's Republic of China and the Democratic People's Republic of Korea. Then along the border of the People's Republic of China to the junction of the border with India and Burma. Thence southward along the India-Burma and Bangladesh-Burma borders to the Bay of Bengal. Along the coast of Burma to its southernmost point. Then to Weh Island (off the north coast of Indonesia). Then to the point $02^{\circ}S$ $92^{\circ}E$ and through the point $10^{\circ}S$ $92^{\circ}E$ to $10^{\circ}S$ $110^{\circ}E$. Then eastward to $10^{\circ}S$ $141^{\circ}E$ extending northward to 00° $141^{\circ}E$ and then to $04^{\circ}N$ $130^{\circ}E$ through the point $20^{\circ}N$ $130^{\circ}E$ to $20^{\circ}N$ $120^{\circ}40'E$. Thence northward to the points $21^{\circ}N$ $121^{\circ}30'E$ and $25^{\circ}N$ $123^{\circ}E$. Between the points $25^{\circ}N$ $123^{\circ}E$ and the point $32^{\circ}30'N$ $124^{\circ}E$, the limit of this Sub-Area is undefined.

In the area where Sub-Areas 6D, 6F and 6G are common, the frequencies allotted to Sub-Area 6G shall be used only by the aeronautical stations of the People's Republic of China; the frequencies allotted to Sub-Areas 6D and 6F shall be used only by the aeronautical stations of the other Administrations in the common area. Also in this common area the operational use by the People's Republic of China of the frequencies allotted to Sub-Area 6G shall be within the area defined by a line starting at $21^{\circ}32'52"N$ $108^{\circ}E$ and through the points $20^{\circ}N$ $108^{\circ}E$, $20^{\circ}N$ $107^{\circ}E$, $18^{\circ}N$ $107^{\circ}E$, $18^{\circ}N$ $108^{\circ}E$, $15^{\circ}N$ $110^{\circ}E$, $10^{\circ}N$ $110^{\circ}E$, $06^{\circ}N$ $108^{\circ}E$, $03^{\circ}30'N$ $112^{\circ}E$, $04^{\circ}N$ $113^{\circ}E$, $08^{\circ}N$ $116^{\circ}E$, $10^{\circ}N$ $118^{\circ}E$, $14^{\circ}N$ $119^{\circ}E$, $18^{\circ}N$ $119^{\circ}E$ to $20^{\circ}N$ $120^{\circ}40'E$ thence along the limit of Sub-Area 6D to $21^{\circ}32'52"N$ $108^{\circ}E$.

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 321-E

1 March 1978

Original: English

French

Spanish

PLENARY MEETING

COMMITTEE 7

FOURTH REPORT OF COMMITTEE 5

1. With reference to the Annex to Recommendation No. Aer2 - CC appearing in page B.2-22 of Document No. 245, Committee 5 at its 8th meeting approved the text given in Annex 1.

2. With reference to page B.1-9 of Document No. 239, Committee 5 adopted the definition of Sub-Areas 6B, 6C and 6D as given in Annex 2. As regards the definition of Sub-Area 6G the Committee could not take a final decision on the text of the description. The text which appeared to be the most acceptable to the meeting and which was proposed by the Chairman of Committee 5 is enclosed in Annex 3.

M. CHEF

Chairman of Committee 5

Annexes : 3



A N N E X 1

TEXT TO BE INCLUDED IN THE ANNEX TO RECOMMENDATION No. AER2 - CC

Appendix 27

Page 3

Modify the title of Part II to read :

"Plan for the allotment of frequencies for
the Aeronautical Mobile (R) Service in the
exclusive bands between 2 850 kHz and 22 000 kHz"

MOD 27/10 1. Frequency separation of channels

MOD 27/10 1.1 The frequency separation of channels between carrier (reference) frequencies shall be 3 kHz. This is adequate to permit communications using the classes of emission referred to in Nos. 27/49-27/52 in the frequency bands between 2 850 kHz and 22 000 kHz allocated exclusively to the Aeronautical Mobile (R) Service. The carrier (reference) frequency of the channels in the Plan shall be an integral multiple of 1 kHz.

MOD 27/16 Add to the Table the following :

21 925	21 964
21 928	21 967
21 931	21 970
21 934	21 973
21 937	21 976
21 940	21 979
21 943	21 982
21 946	21 985
21 949	21 988
21 952	21 991
21 955	21 994
21 958	21 997
21 961	

Reasons : To leave room for Aeronautical Fixed Service.

Page 25

Part II : amend title as for page 3 above.

MOD 27/189

MOD [27/207A] [27/208]

Radio Regulations - Article 5 (RR5-33)

21 870-21 924	AERONAUTICAL FIXED
21 924-22 000	AERONAUTICAL MOBILE (R)

MOD 431 § 5 Frequencies in the bands allocated to the
Aer Aeronautical Mobile Service between 2 850 and 22 000 kHz
(see Article 5) shall be assigned in conformity with the provisions of
Appendices 26 and 27 and the other relevant provisions of these
Regulations.

MOD 552 § 21 (1) Examination of Notices concerning Frequency Assignments to
Aeronautical Stations in the Aeronautical Mobile (R) Service in the
bands allocated exclusively to that Service between 2 850 and
22 000 kHz (see No. 500).

MOD 589 § 30 (1) Frequency bands allocated exclusively to the
Aeronautical Mobile (R) Service between 2 850 and 22 000 kHz.

A N N E X 2

MOD 27/128 Sub-Area 6B

From the point $39^{\circ}49'41''\text{N } 124^{\circ}10'06''\text{E}$, through the points $39^{\circ}31'51''\text{N } 124^{\circ}06'31''\text{E}$, $39^{\circ}\text{N } 124^{\circ}\text{E}$ to the point $32^{\circ}30'\text{N } 124^{\circ}\text{E}$. Between the point $32^{\circ}30'\text{N } 124^{\circ}\text{E}$ and the point $25^{\circ}\text{N } 123^{\circ}\text{E}$, the limit of this sub-area is undefined. From the point $25^{\circ}\text{N } 123^{\circ}\text{E}$, through the points $21^{\circ}\text{N } 121^{\circ}30'\text{E}$, $20^{\circ}\text{N } 120^{\circ}\text{E}$, $20^{\circ}\text{N } 176^{\circ}\text{W}$, $50^{\circ}\text{N } 164^{\circ}\text{E}$, $43^{\circ}\text{N } 147^{\circ}\text{E}$, thence west between the territorial waters of Japan and the USSR and along the border between the Democratic People's Republic of Korea and USSR, and then the border between China and the Democratic People's Republic of Korea, to the point $39^{\circ}49'41''\text{N } 124^{\circ}10'06''\text{E}$.

NOC 27/129 Sub-Area 6C

MOD 27/130 Sub-Area 6D

From the junction of the borders of China, India and Burma, south along the India-Burma and Bangladesh-Burma borders to the Bay of Bengal. Along the coast of Burma to its southernmost point, then to Weh Island (off the north coast of Sumatra). Then to the point $02^{\circ}\text{S } 92^{\circ}\text{E}$, and through the point $10^{\circ}\text{S } 92^{\circ}\text{E}$ to $10^{\circ}\text{S } 110^{\circ}\text{E}$. Then eastward to $10^{\circ}\text{S } 141^{\circ}\text{E}$ extending northward to $00^{\circ} 141^{\circ}\text{E}$ and then to $04^{\circ}\text{N } 130^{\circ}\text{E}$ through the point $20^{\circ}\text{N } 130^{\circ}\text{E}$ to $20^{\circ}\text{N } 113^{\circ}\text{E}$. Thence, south around the Island of Hainan, and along the China-Viet-Nam, China-Laos and China-Burma borders to close the sub-area at the junction of the borders of China, India and Burma.

A N N E X 3

ADD 27/132A Sub-Area 6G

From the point $32^{\circ}30'N$ $124^{\circ}E$ northward to $39^{\circ}N$ $124^{\circ}E$, $39^{\circ}31'51"N$ $124^{\circ}06'31"E$ then to $39^{\circ}49'41"N$ $124^{\circ}10'06"E$ on the border between the People's Republic of China and the Democratic People's Republic of Korea. Then along the border of the People's Republic of China to the junction of the border with India and Burma. Thence southward along the India-Burma and Bangladesh-Burma borders to the Bay of Bengal. Along the coast of Burma to its southernmost point. Then to Weh Island (off the north coast of Indonesia). Then to the point $02^{\circ}S$ $92^{\circ}E$ and through the point $10^{\circ}S$ $92^{\circ}E$ to $10^{\circ}S$ $110^{\circ}E$. Then eastward to $10^{\circ}S$ $141^{\circ}E$ extending northward to 00° $141^{\circ}E$ and then to $04^{\circ}N$ $130^{\circ}E$ through the point $20^{\circ}N$ $130^{\circ}E$ to $20^{\circ}N$ $120^{\circ}40'E$. Thence northward to the points $21^{\circ}N$ $121^{\circ}30'E$ and $25^{\circ}N$ $123^{\circ}E$. Between the points $25^{\circ}N$ $123^{\circ}E$ and the point $32^{\circ}30'N$ $124^{\circ}E$, the limit of this Sub-Area is undefined.

In the area where Sub-Areas 6D, 6F and 6G are common, the frequencies allotted to Sub-Area 6G will be used only by the aeronautical stations of the People's Republic of China; the frequencies allotted to Sub-Areas 6D and 6F will be used only by the aeronautical stations of the other Administrations in the common area. Also in this common area, the domestic flights of the People's Republic of China will be within the area defined by a line starting at $21^{\circ}32'52"N$ $108^{\circ}E$ and through the points $20^{\circ}N$ $108^{\circ}E$, $20^{\circ}N$ $107^{\circ}E$, $18^{\circ}N$ $107^{\circ}E$, $18^{\circ}N$ $108^{\circ}E$, $15^{\circ}N$ $110^{\circ}E$, $10^{\circ}N$ $110^{\circ}E$, $06^{\circ}N$ $108^{\circ}E$, $03^{\circ}30'N$ $112^{\circ}E$, $04^{\circ}N$ $113^{\circ}E$, $08^{\circ}N$ $116^{\circ}E$, $10^{\circ}N$ $118^{\circ}E$, $14^{\circ}N$ $119^{\circ}E$, $18^{\circ}N$ $119^{\circ}E$ to $20^{\circ}N$ $120^{\circ}40'E$ thence along the limit of Sub-Area 6D to $21^{\circ}32'52"N$ $108^{\circ}E$.

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 322-E

1 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the Democratic People's Republic of Korea :

The delegation of the Democratic People's Republic of Korea participating at the Conference cannot agree to the description of the boundary on the Western Sea adjacent to our country in the Sub-RDARA 6B, 6F, 6G discussed at the Plenary Meeting because it does not reflect our position.

The delegation of the Democratic People's Republic of Korea, therefore, consider that the description of the boundary on the sea between the Democratic People's Republic of Korea and the Chinese People's Republic should be decided between the two countries later.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 323-E

2 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the People's Republic of China :

1. The Chinese Delegation cannot agree to the non-delineation for inclusion of the region defined by coordinates $32^{\circ}30'N$ $124^{\circ}E$, $32^{\circ}30'N$ $126^{\circ}50'E$, $26^{\circ}N$ $125^{\circ}E$, $25^{\circ}N$ $123^{\circ}E$, which encompasses China's territory Diaoyu Dao and other islands, in RDARA Sub-Area 6G in Appendix 27 (Revised) to the Radio Regulations, for such non-delineation of the above-mentioned region of RDARA Sub-Area 6G will affect the national interests and the flight operations of domestic air services of China in this region. The Chinese authorities concerned will continue to take measures to ensure the smooth operation of their flight services in the above-mentioned region.
2. In the maps of the MWARA, RDARA and VOLMET Areas attached to Appendix 27 (Revised) to the Radio Regulations, the delineation of the boundary line between the People's Republic of China and India does not conform to China's national boundary; the Chinese Delegation deems that it should be corrected to conform to China's national boundary.
3. The Chinese Delegation makes reservations with regard to No. 27/9 of Appendix 27 (Revised) to the Radio Regulations and declares that, in the territory of the People's Republic of China, the operation of aircraft stations shall be governed by the relevant regulations of the People's Republic of China.





AERONAUTICAL (R) CONFERENCE
GENEVA, 1978

E

B.7

PLENARY MEETING

7th SERIES OF TEXTS SUBMITTED BY THE
EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for first reading:

<u>Source</u>	<u>Document No.</u>	<u>Title</u>
C.5	321 Corr.1	No. 27/132

C.J. DHENIN
Chairman of the
Editorial Committee

Annex: 2 pages



MOD 27/132 Sub-Area 6F

From the point $25^{\circ}\text{N } 123^{\circ}\text{E}$, $21^{\circ}\text{N } 121^{\circ}30'\text{E}$, $20^{\circ}\text{N } 120^{\circ}\text{E}$, $20^{\circ}\text{N } 113^{\circ}\text{E}$, thence south around the Island of Hainan and along the People's Republic of China-Viet-Nam, People's Republic of China-Lao People's Democratic Republic and People's Republic of China-Burma borders to the junction of the borders of China, India and Burma, south along the India-Burma and Bangladesh-Burma borders to the Bay of Bengal. Along the coast of Burma to its southernmost point then to Weh Island (off the north coast of Sumatra). Then to the point $02^{\circ}\text{S } 92^{\circ}\text{E}$ and through the point $10^{\circ}\text{S } 92^{\circ}\text{E}$ to $10^{\circ}\text{S } 110^{\circ}\text{E}$. Then northward along 110°E meridian, thence along the boundary of Sub-Area 6C to the points $20^{\circ}\text{N } 130^{\circ}\text{E}$, $43^{\circ}\text{N } 147^{\circ}\text{E}$, thence westward between the territorial waters of Japan and the U.S.S.R. and along the border between the Democratic People's Republic of Korea and the U.S.S.R., then the border between China and the Democratic People's Republic of Korea, to the points $39^{\circ}49'41''\text{N } 124^{\circ}10'06''\text{E}$, $39^{\circ}31'51''\text{N } 124^{\circ}06'31''\text{E}$, $39^{\circ}\text{N } 124^{\circ}\text{E}$, then to the point $32^{\circ}30'\text{N } 124^{\circ}\text{E}$.

Between the points $32^{\circ}30'\text{N } 124^{\circ}\text{E}$ and $25^{\circ}\text{N } 123^{\circ}\text{E}$, the limit of this Sub-Area is undefined.

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 325-E

2 March 1978

Original : English

PLENARY MEETING

MINUTES

OF THE

THIRD PLENARY MEETING

Friday, 24 February 1978, at 1550 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

Subjects discussed

Document No.

- | | |
|--|-----|
| 1. First Report of Committee 6 | 204 |
| 2. Second Report of Committee 6 | 224 |
| 3. Third Report of Committee 6 | 237 |
| 4. Statements on interference | - |
| 5. Statement by the delegate of Panama | - |



1. First Report of Committee 6 (Document No. 204)

1.1 The Chairman of Committee 6, introducing the document, said that it was largely concerned with decisions on amendments to the Radio Regulations, and changes in definitions, together with Resolutions and Recommendations, and the dates of entry into force of the Final Act and new Frequency Allotment Plan. The Committee had decided on 1 February 1983 for entry into force of the new Plan but had not specified a time. The suggestion was that it should be 0001 hours GMT. A number of delegations had reserved their positions on MOD 27/9, but the majority of the Committee had been in favour of the text submitted in the document.

1.2 MOD 201A, 205A, 969A, 1326A, 1353B, Appendix 1 page 15 paragraph 3

Approved.

1.3 MOD 27/9

The delegate of Venezuela said that his delegation had been amongst those which had reserved their position in respect of the proposed wording. Not wishing to maintain that reservation in the Final Act, however, he proposed as a compromise that the words "in motion" should be inserted after "aircraft stations", to cover both mobile and moving stations; as the paragraph stood it was contrary to the ITU Convention, and prevented countries from establishing their own rules for aircraft.

1.4 The delegates of Colombia, Panama and Paraguay fully supported that proposal.

1.5 The delegate of Uruguay fully supported the reasons behind that proposal, but emphasized that the original expression "in flight" should be used instead of "in motion".

The Chairman observed that to resume the arguments on "in flight" would simply be undoing what had so far been achieved by the Conference. At least the words "in motion" were a compromise.

1.6 The delegate of Brazil supported the opinion and arguments of the delegate of Venezuela, but could not accept his compromise solution, since it would give rise to problems as to how "in motion" should be interpreted, just as there had been problems over the definition of "mobile station" in No. 32 of the Radio Regulations. The new text of 27/9 contradicted that definition, and was not acceptable to his delegation either from the legal or operational points of view, the latter since it would allow aircraft on the ground to use HF bands, which the Conference was endeavouring to prevent. His Administration would therefore submit its written reservations on MOD 27/9 in Document No. 204 for the Protocol of the Final Act, stating that on Brazilian territory aircraft would be subject to the Brazilian rules and regulations.

1.7 The delegate of the Yemen Arab Republic pointed out that MOD 27/9 was intended to cover communication between ground stations and aircraft in flight. Aircraft on the ground could communicate by SITA or any other means.

1.8 The delegate of Papua New Guinea fully supported the text in Document No. 204. Any problem concerning the possibility of aircraft becoming fixed stations could be solved by registering them as such. When an aircraft was in the remoter areas of his country, his Administration wanted the right to use HF services from its aircraft.

1.9 The delegate of Argentina said that his delegation maintained the position stated in Document No. 60. The words "in motion" as proposed by the delegate of Venezuela could apply to aircraft close to airports and therefore within the reception area of all aircraft. That could result in blocking and hence affect the safety of navigation. The words "aircraft in flight" would avoid that difficulty.

1.10 The delegate of Kenya said that he supported the text of MOD 27/9 in the document, but thought that a clause might usefully be added, stating that an aeronautical station might be used when at an airport, to cover cases of airports where no public communication facilities existed.

1.11 The delegate of Brazil asked for an IFRB interpretation of a "mobile station".

The representative of the IFRB declined to comment at that late stage in the discussion.

The delegate of Brazil said that he did not remember there being any clarification by the IFRB or by ITU on the legal issues involved, and requested that the Secretary-General of ITU should give a definition of "mobile station".

The Secretary-General read out the definition of "mobile station" from the Radio Regulations.

1.12 The delegate of Argentina called for a redefinition of "mobile station" in the Radio Regulations. As he saw it, the existing definition was intended for mobile stations on land or at sea and which could stop anywhere in the course of their journeys. What, however, should be understood by an unspecified point in air navigation? It would be impossible for an aircraft following a regular flight path to stop at any unspecified point. That definition had to be clear in the Radio Regulations, which his Administration considered to be fundamental law, and which the Conference was responsible for applying.

1.13 The delegate of Mauritius said that he agreed to MOD 27/9 as it appeared in the document, on the understanding that it did not restrict his country's sovereign right to prevent communications between stationary aircraft within its territory and stations located outside its control.

The Chairman of Committee 6 pointed out that that subject had been amongst those discussed at length in Committee 6, and that the result had been decided by a large majority.

The view first expressed by the delegate of Brazil had been the view of those who had objected to the word "flight" being left out of the definition.

1.14 The delegate of Sweden stated that the definition only dealt with the possibility of choosing different frequency bands according to propagation conditions, and felt that the word "permit" might be causing confusion. He therefore proposed that ".... is intended to make communication possible at any time" should replace the existing wording.

The Chairman of Committee 6 agreed that the intention of MOD 27/9 was as described by the Swedish delegate; he fully supported his proposal.

1.15 The delegate of France also supported the proposal, but added that there was really only need for a simple alignment of the French and English texts, the former being fully satisfactory as it stood.

1.16 The Chairman suggested that in view of the diversity of views, the delegations of Argentina, Venezuela and Sweden might hold informal discussions with himself and the Chairman of Committee 6 in an effort to find a compromise solution.

The Chairman of Committee 6 pointed out that after extensive discussions with the delegates concerned, the wording in the document had been accepted on the basis that opposing delegations would make their reservations in the Final Protocol. He would nevertheless be prepared to enter further discussions.

1.17 The delegate of Argentina said that although his delegation had so far maintained an inflexible position, he could accept the wording proposed by Venezuela, but reserved his Administration's right to insert a reservation in the Final Act and take measures accordingly.

1.18 The delegate of the Federal Republic of Germany said that he supported MOD 27/9 in the document, but could accept the Swedish proposal.

1.19 The delegate of the United Kingdom supported MOD 27/9 as it stood.

1.20 The delegate of France said that the proposal for a new drafting group put into question the entire paragraph. He would prefer No. 505 of the Convention to be applied.

1.21 The Deputy Secretary-General stated that as the text was to be part of an international treaty, action such as that referred to by the delegate of Mauritius would only be consistent with the treaty if Mauritius made a reservation in the Final Act; such a step had to be taken at the Conference. Such reservations were subject to final approval by the Government concerned. They could be reduced but not widened after the Conference.

1.22 MOD 27/9 was retained as it stood with majority support; reservations would be entered into the Final Act accordingly.

1.23 SUP 27/17, 18 and 19

The Chairman recalled the discussions held on Document No. 181 when the wording of MOD 27/17, 18 and 19 suggested by Committee 4 had been held over, in view of the comments and recommendations by the Chairman of Committee 6 that those numbers should be deleted.

SUP 27/17, 18 and 19 were approved.

1.24 ADD 27/194A, MOD 27/196, 27/201

Approved.

1.25 Section II, Article 3

The Chairman of Committee 6 said that in the last sub-paragraph of the Article, immediately preceding the proposed deletions, the square brackets could be removed from the Resolution number, which itself would become Resolution Aer E, Resolves 5).

Article 3, as amended, was approved.

1.26 Resolution No. A

Approved.

1.27 Resolution No. B

The delegate of Argentina asked for clarification of the use of "high frequency channels" and "higher frequencies" in preambular paragraph (2) and operative paragraph (1) respectively, as the same word had been used to cover both expressions in the Spanish text.

The Deputy Secretary-General said that the matter had been discussed in Committee 6, and that the Spanish text would be brought into line with the English and French texts.

Resolution No. B was approved.

1.28 Resolutions Nos. C and D, Recommendations Nos. A and B

Approved.

Document No. 204 as a whole was approved.

2. Second Report of Committee 6 (Document No. 224)

2.1 The Chairman of Committee 6 said that in principle the document related to the modification of 27/20 and 27/23 and Recommendation No. D on the inclusion of the 22 MHz band, or part of it, in Appendix 27 for aeronautical mobile (R) purposes. As Committee 6 had not been aware what part of that band, if any, Committee 5 was proposing, square brackets had been placed around the frequencies so that the appropriate figures could be inserted later on. The Annex to Recommendation No. D indicated the changes that would be necessary in Appendix 27 and related Radio Regulations if the 1979 Conference acted on it. Recommendation No. E had received the unanimous approval of Committee 6.

2.2 MOD 27/20 and 27/23

Approved.

2.3 Recommendation No. D and Annex

The Chairman of Committee 6, in reply to a question by the Chairman concerning the Annex acknowledged that the list of changes might not be complete and that others might have to be inserted such as, for example, ADD 31A and 31B from Document No. 181.

The delegate of Papua New Guinea said that "17 920 kHz" under "Page 3" should read "17 970 kHz".

The Recommendation and its Annex, as amended, were approved.

The Chairman of Committee 5 said that while his Committee would endeavour to meet the request of Committee 6 as far as the table was concerned, it might not be in the form indicated, and Recommendation No. D might have to be altered slightly as a result.

It was so agreed.

2.4 Recommendation No. E

Approved.

Document No. 224 as a whole was approved.

3. Third Report of Committee 6 (Document No. 237)

3.1 The Chairman of Committee 6 said that the document related to the strengthening of Article 9 procedures and additions to those procedures relating to aeronautical stations. The work had been approved unanimously in the Committee.

3.2 ADD 553A, (MOD) 557, ADD 557A, MOD 558, ADD 27/16.1

Approved.

3.3 SUP Resolution No. Aer 6

Approved.

3.4 Resolution No. E

The Chairman of Committee 6 said that "MOD" should be deleted from operative paragraph 1.4, and that if the Plenary so agreed, the time of 0001 hours GMT, already approved by Committee 6 and contained in preambular paragraph (b) of Resolution No. F, should be inserted before the date 1 February 1983 throughout.

It was so agreed.

Resolution No. E, thus amended, was approved.

3.5 Resolutions Nos. F and G

Approved.

Document No. 237 as a whole was approved.

4. Statements on interference

4.1 The delegate of Norway made the following statement :

"The Norwegian Delegation is anxious to reach an agreement and an associated frequency plan for the Aeronautical Mobile (R) Service which can fully satisfy the requirements for that service in the years to come. There is, however, a factor of uncertainty to which we wish to draw the attention of the Conference.

Since the middle of 1976, Norwegian radiocommunication services have suffered harmful interference from radio transmissions originating in the territory of the Soviet Union. These are very powerful pulse transmissions, operating at different frequencies, mainly in the HF band, and occupying a very large bandwidth.

The transmissions are impeding, and often blocking various services which are operating in accordance with the Radio Regulations, such as the Aeronautical Mobile Service, the Maritime Mobile Service, the Fixed Service, the Broadcasting Service and the Amateur Service. Since these transmissions seem to occur on several frequencies simultaneously, or sequentially, over an extremely wide band, it is often impossible to carry out HF communication in a normal manner.

The transmissions substantially degrade communications with hazardous effect to both aviation and shipping. In addition, working conditions of the radio operators have become very difficult and frustrating.

Several complaints have been sent to the USSR Administration since August 1976, the matter has also been raised through diplomatic channels, and the IFRB has also been informed. No significant improvement in the interference situation has taken place until now.

We fear that this serious violation of Article 35 of the Convention and the breach of other provisions, such as Resolution No. Aer 2 of the Radio Regulations may have serious impact on the normally good international cooperation in the field of telecommunication. Our Administration urges the USSR Administration to take all necessary measures to stop the harmful interference without delay."

4.2 The delegates of Denmark, Sweden and Switzerland fully supported that statement.

4.3 The delegate of the Federal Republic of Germany also fully endorsed the Norwegian statement. His country had suffered serious interference from the Soviet Union for over one and a half years in many important radio services, and particularly in the Aeronautical (R) Service.

4.4 The delegate of the Union of Soviet Socialist Republics made the following statement :

"In the Soviet Union, research on radio-wave propagation is being conducted by using radio installations in the HF range which might perhaps (according to the statements of the Administrations of certain States) cause some short-term interference to individual services. Similar signals have been recorded in the Soviet Union by the receiving apparatus and monitoring services from the operation of installations of other countries.

With a view to reducing possible interference to the Aeronautical and Maritime Mobile Services operating in the HF range from the above-mentioned research operation conducted in the Soviet Union, a number of technical and organizational measures have been taken.

At present the radio monitoring services confirm the efficiency of the measures taken."

5. Statement by the delegate of Panama

The delegate of Panama made the following statement :

"The Delegation of the Republic of Panama wishes to lodge its objection to the use of the code PNZ in Documents Nos. DT/16, DT/21 and wherever else its territory is referred to as the Canal Zone, as if it were an independent territory.

It has lately become the Panamanian Government's policy, at ITU Administrative Conferences, to state - as it is forced to once more - that the letters PNZ do not represent any country or geographical area, as the territory or geographical area concerned is an integral part of the territory of the Republic of Panama.

We therefore demand that the letters PNZ be deleted from all working documents of the Conference and be replaced by the letters PNR, corresponding to the Republic of Panama, the sole Administration responsible for frequency requirements and registration throughout the entire geographical area or zone known as the Isthmus of Panama, territory which belongs to the Republic of Panama."

The meeting rose at 1735 hours.

The Secretary-General :

M. MILI

The Chairman :

T.V. SRIRANGAN

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 326-E

2 March 1978

Original : French

COMMITTEE 3

SUMMARY RECORD

OF THE

SECOND AND LAST MEETING OF COMMITTEE 3

(BUDGET CONTROL)

Monday, 27 February 1978, at 1500 hrs

Chairman : Mr. A.M. DIONE (Senegal)

<u>Subjects discussed :</u>	<u>Document No.</u>
1. Summary Record of the First Meeting of Committee 3	141
2. Situation regarding the accounts of the Aeronautical Conference at 24 February 1978	DT/49
3. Draft Report of the Budget Control Committee to the Plenary Meeting	DT/50
4. Copies of the Final Acts handed to the delegations to the Conference	-
5. Completion of the work of the Committee	-



1. Summary Record of the First Meeting of Committee 3 (Document No. 141)

Approved.

2. Situation regarding the accounts of the Aeronautical Conference at 24 February 1978 (Document No. DT/49)

2.1 Replying to a question by the delegate of the Hungarian People's Republic concerning item 11.101, page 2, the Secretary of the Committee said that the cost of interpretation had in fact been overestimated because in more cases than had been expected it had been possible to engage local staff and thus to make a major saving, which also affected item 11.102 "Travel expenses" to the extent of about 20 %.

2.2 Item 11.111, page 3

The Secretary of the Committee said that for that item, too, a considerable saving had been possible because fewer premises had had to be rented in the CICG. The total margin of 122,000 Swiss francs represented more than 10 % of the budget prepared for the Conference.

2.3 In reply to a question by the delegate of Hungary concerning item 11.117, the Secretary of the Committee said that the amount of 837 Swiss francs in column 8 represented the cost of taxis for staff of the typing service who worked in shifts and were entitled to reimbursement of those costs from 2230 hrs onwards. The amount of 4,163 Swiss francs in column 10 was an estimate made in order to arrive at the round total of 5,000 Swiss francs.

2.4 The delegate of Hungary said that he was agreeably surprised by the very large saving made compared with the 1976 budget which had been approved by the Administrative Council (page 5), and the Secretary of the Committee explained the reasons for the favourable situation. The Aeronautical Conference had been scheduled originally for 1977, so that provision for the preparatory work had been made in the 1976 budget. In view of the postponement of the Conference, all the expenditure on preparatory work had, at the end of 1976, been transferred to 1977. During its session of that year, however, the Administrative Council had changed the structure of the budget and included all common services expenditure in Section 17, which as a result had covered the preparatory work of the Aeronautical Conferences.

Having regard to the above comments and explanations, Document No. DT/49 was approved.

3. Draft Report of the Budget Control Committee to the Plenary Meeting
(Document No. DT/50)

3.1 The Chairman said that the blanks in Document No. DT/50 would be filled in later with the appropriate amounts.

3.2 In reply to a question by the delegate of the United States of America, the Secretary of the Committee said that if the Conference were to continue beyond the scheduled date of 3 March, the additional expenditure (cost of interpretation) would be about 10,000 Swiss francs per day.

Point 4, page 2 of Document No. DT/50

3.3 The Secretary of the Committee pointed out that it was for the Budget Control Committee to submit proposals to the Plenary Meeting on the apportionment of the costs of the Final Acts of the Conference. Previous conferences had decided to charge one third of these costs to their own budgets and two thirds to the supplementary publications budget. The same proposal was made for the current Conference.

There being no objection, the proposal was approved.

3.4 The Secretary of the Committee pointed out that Annex 1 on page 4 should be entitled "Annex 2" and that Annex 1 would be added to the document later. The Inter-Governmental Maritime Consultative Organization (IMCO) should be added to the list of specialized agencies.

Subject to the foregoing, Document No. DT/50 was approved.

4. Copies of the Final Acts handed to the delegations to the Conference

4.1 In reply to a question by the delegate of Hungary, the Secretary of the Committee announced that according to information supplied by the Executive Secretary each delegation would receive three copies of the Final Acts and additional copies would be sent on request.

5. Completion of the work of the Committee

The Chairman said that Committee 3 had completed its task and he expressed his warmest thanks to all those who had contributed to the smooth progress of the work. He mentioned in particular the interpreters, the staff of the General Secretariat which had assisted the Committee, and the Secretary of the Committee whose help had been invaluable and who had kept the Chairman continually informed of the financial situation of the Conference.

The meeting rose at 1530 hours.

The Secretary :

R. PRELAZ

The Chairman :

A.M. DIONE



AERONAUTICAL (R) CONFERENCE
GENEVA, 1978

Document No. 327-E
3 March 1978

E

B.8

PLENARY MEETING

8th SERIES OF TEXTS SUBMITTED BY THE
EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for first reading:

<u>Source</u>	<u>Document No.</u>	<u>Title</u>
C.5	321	Annex to Recommendation CC
C.6	224	
C.5	333	Part II - Section I - Article 4

C.J. DHENIN
Chairman of the
Editorial Committee

Annex: 4 pages



ANNEX TO RECOMMENDATION Aer2 - CC

**Outline of changes to be made to
Appendix 27 Aer2 and related Radio Regulations**

APPENDIX 27 Aer2

Table of
Contents

Part II. In the title in italics,
replace 17 970 kHz, by [22 000] kHz.

No. 27/10

Replace 17 970 kHz by [22 000] kHz.

No. 27/16

Add the following new frequencies to the Table of
Frequencies:

kHz
21 924 - 22 000

21 925	21 964
21 928	21 967
21 931	21 970
21 934	21 973
21 937	21 976
21 940	21 979
21 943	21 982
21 946	21 985
21 949	21 988
21 952	21 991
21 955	21 994
21 958	21 997
21 961	_____

25 CHNLS

Reason: To leave room for the aeronautical fixed service.

No. 27/31A

In the title preceding the number 27/31A,
replace 18 MHz by 22 MHz;

in the text, add and 22 MHz after 18 MHz.

No. 27/31B

In the second line, replace 18 MHz
by the 18 MHz and 22 MHz bands;

add and 22 MHz after 18 MHz in the 5th line.

Part II

In the title replace 17 970 kHz by 22 000 kHz.

No. 27/189

Set out a new column for the new 22 MHz band
to be added to the Table.

After the

No. [27/207A]

Add a new Table for the new 21 924-22 000 kHz
band.

MOD [27/208]

RADIO REGULATIONS

ARTICLE 5

Modify the Table of Frequency Allocations for the band **21 870-22 000 kHz** as follows to show the new exclusive allocation to the aeronautical mobile (R) service.

<u>21 870-21 924</u>	AERONAUTICAL FIXED
<u>21 924-22 000</u>	AERONAUTICAL MOBILE (R)

Article 7 Section II

No. 431 Replace 18 030 kHz by 22 000 kHz.

Article 9 Section II

No. 552 Replace 17 970 kHz by 22 000 kHz.

Article 9 Section III

No. 589 Replace 17 970 kHz by 22 000 kHz.

[PART II - Section I]

ADD

ARTICLE 4

ADD

World-wide Allotment Areas

ADD

World-wide Area I

ADD

27/185E

The boundaries of this allotment area comprise those of RDARAs 1, 2 and 3.

World-wide Area II

ADD

27/185F

The boundaries of this allotment area comprise those of RDARAs 10, 11, 12A, 12B, 12C, and 12D.

World-wide Area III

ADD

27/185G

The boundaries of this allotment area comprise those of RDARAs 6, 8, 9 and 14.

World-wide Area IV

ADD

27/185H

The boundaries of this allotment area comprise those of RDARAs 12E to 12J inclusive and 13.

World-wide Area V

ADD

27/185I

The boundaries of this allotment area comprise those of RDARAs 4, 5 and 7.

INTERNATIONAL TELECOMMUNICATION UNION
AERONAUTICAL (R) CONFERENCE
(Geneva, 1978)

Document No. 328-E
1 March 1978
Original : English
French
Spanish

PLENARY MEETING

Note by the Secretary-General

FINAL PROTOCOL

The documents (deposited before 1730 hrs on 1 March 1978) listed below contain texts to be published in the Final Protocol to the Final Acts of the Conference :

<u>Document No.</u>	<u>Submitted by</u>
241	Democratic People's Republic of Korea
251	Yemen Arab Republic
253	Republic of the Senegal
254	People's Democratic Republic of Yemen
255	Republic of Venezuela
256	United Republic of Cameroon
258	Argentine Republic
268	Malaysia
269 + Add	Mexico
270	Gabon Republic
271	Socialist People's Libyan Arab Jamahiriya
272	Republic of the Ivory Coast
273	Iran
274	Islamic Republic of Mauritania
275	Republic of Afghanistan
276	Republic of Panama
277	Republic of Kenya
278	Federative Republic of Brazil
279	Cuba
280	Oriental Republic of Uruguay
281	Republic of India
282	Kingdom of Saudi Arabia
284	Republic of Bolivia



Document No.

Submitted by

286	Republic of Paraguay
287	Thailand
288	Republic of the Philippines
289	Federal Republic of Nigeria
290	Republic of Guinea
291	Republic of Singapore
296	Republic of Upper Volta
297	Republic of Liberia
298	Republic of Indonesia
299	Republic of Colombia
300	Spain
302	Democratic Republic of Sao Tome and Principe
303	Norway
304	Islamic Republic of Pakistan
305	Republic of Zaire
306	United Republic of Tanzania
310	Republic of Guatemala
311	Algerian Democratic and Popular Republic, Kingdom of Saudi Arabia, State of Bahrain, State of Kuwait, Socialist People's Libyan Arab Jamahiriya, Kingdom of Morocco, Islamic Republic of Mauritania, Islamic Republic of Pakistan, State of Qatar, Syrian Arab Republic, Tunisia, the Arab Republic of Yemen, the People's Democratic Republic of Yemen
312	Chile
313	Ecuador
314	Algerian Democratic and Popular Republic
316	People's Republic of Bangladesh
317	Syrian Arab Republic
318	Ethiopia
319	Federal Republic of Germany, Denmark, Greece, Norway, Sweden, Confederation of Switzerland
320	Republic of Korea
322	Democratic People's Republic of Korea

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 329-E

2 March 1978

Original : English

French

Spanish

PLENARY MEETING

Note by the Secretary-General

FINAL PROTOCOL

The document (deposited before 0900 hours on 2 March 1978) listed below contains a text to be published in the Final Protocol to the Final Acts of the Conference :

Document No.

323

Submitted by

People's Republic of China



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 330-E

2 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the Union of Soviet Socialist Republics :

In connection with the statement made by the delegates of the Federal Republic of Germany, Denmark, Greece, Norway, Sweden and Switzerland and contained in Document No. 319, the Delegation of the USSR wishes to make the following statement :

In the Soviet Union the research on radio-wave propagation is being conducted by using the radio installations in the MF range and it might perhaps (according to the statements of Administrations of certain States) cause some short-term interference to individual services. Similar signals have been recorded in the Soviet Union by the receiving apparatus and monitoring service from the operation of installations of other countries.

With a view to reduce possible interference to the Aeronautical and Maritime Mobile Services operating in the MF range from the above-mentioned research operation, conducted in the Soviet Union, a number of technical and organizational measures have been taken.

At present radio monitoring services confirm the efficiency of measures taken.

In carrying out these studies, the Administration of the Soviet Union takes due account of the provisions of the International Telecommunication Convention and the Radio Regulations.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 331-E

2 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the Republic of India :

The Indian Delegation has noted the following statement incorporated on the maps of MWARA, RDARA and VOLMET Areas attached to Appendix 27 (Rev.) to the Radio Regulations : "The mention of the name of a country or of a geographical area on this map, as well as the tracing of borders, do not imply, on the part of the ITU, any position with respect to the political status of such a country or geographical area, or official recognition of these borders". However, in view of paragraph 2 of the Final Protocol (Document No. 323 dated 2 March 1978) of the People's Republic of China, the Indian Delegation would like to point out that the Republic of India does not accept the claims of the People's Republic of China in regard to the boundary line between China and India and there is no need for any correction to the maps as mentioned in the said Final Protocol of the People's Republic of China.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 332-E

2 March 1978

Original : Spanish

COMMITTEE 5

Argentine Republic

PROPOSALS FOR THE WORK OF COMMITTEE 5

The Delegation of the Argentine Republic, considering that it made a conservative estimate of its frequency requirements for Sub-Areas 13G and 13H for its expanding civil aviation services, that the change in the mode of transmission has brought about an increase of at least 200 % in the number of channels available under the new allotment plan, and that our requests to cover requirements over the next 10 years amounted to a mere 46 %, is of the opinion that it has made a valuable contribution to the Allotment Plan of the 1978 Aer 2 Conference and that it is unable to reduce its requirements.

We should therefore like to reiterate to the Chairman of Committee 5 the proposal made orally during the 5th meeting of Committee 5 that a comparative table should be drawn up showing the current assignments and future estimates of all Administrations for the next ten years. Such a table would facilitate the work of the Committee in preparing an Allotment Plan that is in keeping with reality.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 333-E

2 March 1978

Original : French
English
Spanish

PLENARY MEETING

COMMITTEE 7

FIFTH REPORT OF COMMITTEE 5

At the 9th Meeting of Committee 5 on 2 March 1978 the Committee agreed on the following texts :

PART II - Section I

Article 4

World-wide allotment areas

World-wide Area I

ADD 27/185E The boundaries of this allotment area comprise those of RDARAs 1, 2 and 3.

World-wide Area II

ADD 27/185F The boundaries of this allotment area comprise those of RDARAs 10, 11, 12A, 12B, 12C, and 12D.

World-wide Area III

ADD 27/185G The boundaries of this allotment area comprise those of RDARAs 6, 8, 9 and 14.

World-wide Area IV

ADD 27/185H The boundaries of this allotment area comprise those of RDARAs 12E to 12J inclusive and 13.

World-wide Area V

ADD 27/185I The boundaries of this allotment area comprise those of RDARAs 4, 5 and 7.

M. CHEF
Chairman of Committee 5



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 334-E

3 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For Japan :

1. Referring to 27/76 of Appendix 27 to the ITU Radio Regulations and to paragraph 1 of the reservation made by the Chinese Delegation in Document No. 323 which was distributed on 2 March 1978, the Japanese Delegation is, under instructions from its home Government, obliged to state as follows :

The Senkaku Islands, referred to as the Diaoyu Dao and other islands in the reservation made by the Chinese Delegation in the above document, are inherent territory of Japan, and therefore the Chinese allegation that these islands are Chinese territory is totally groundless.

2. With regard to paragraph 3 of the reservation made by the Chinese Delegation in the above document, the Japanese Delegation is further instructed to state that it cannot accept the said reservation in view of the principle regarding the use of frequencies as provided for in 27/9 of Appendix 27 to the Radio Regulations.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 335-E

3 March 1978

Original : English

COMMITTEE 6

SUMMARY RECORD

OF THE

FIFTH MEETING OF COMMITTEE 6

(REGULATORY PROCEDURES)

Thursday, 23 February 1978, at 1405 hrs

Chairman : Mr. R.J. BUNDLE (New Zealand)

Subjects discussed

Document No.

- | | |
|--|--------------|
| 1. Approval of the Summary Record of the First Meeting | 229 |
| 2. Modification to Article 9 of the Radio Regulations | 228 |
| 3. Consideration of the Second Report of Working Group 6B | 233 + Add. 1 |
| 4. Text for No. 27/16.1 | DT/46 |
| 5. Note from the Chairman of Working Group 6A | 217 |
| 6. Regulatory procedures relating to frequencies to be designated for long-distance operational control communications | 144, 221 |



1. Approval of the Summary Record of the First Meeting (Document No. 229)

Approved, subject to the insertion of the symbol "(Rev.1)" after references to Document No. 61 on pages 1, 6 and 7 and Document No. 91 on page

2. Modification to Article 9 of the Radio Regulations (Document No. 228)

Approved.

The Chairman observed that the modification would entail a slight consequential change in No. 558 of the Radio Regulations, where the reference to No. 554 should be replaced by No. 553A. Approved.

3. Consideration of the Second Report of Working Group 6B (Document No. 223 and Add. 1)

3.1 The Chairman of Working Group 6B, introducing the Report, said that the Working Group had virtually completed its work the previous evening, but had had to deal that morning with a few outstanding points which were the subject of the Addendum to the Document. The text finally approved for draft Resolution No. Aer2-[E] was based on the valuable work of the Sub-Working Group 6B1 and was the result of long discussion; in particular, the date "1 April 1981" in "resolves" paragraph 3 represented a compromise reached after a thorough debate. Draft Resolutions Nos. Aer2-[F] and Aer2-[G] were self-explanatory; with regard to the last-named draft, the consequential renumbering in the last sentence of point 3 of the Addendum should read "... paragraphs 1, 1.1, 1.2 and 2 as 2, 2.1, 2.2 and 3 ...".

3.2 Resolution No. Aer2-[E]

The delegate of the Federal Republic of Germany, supported by the delegates of Australia and the United Kingdom proposed that the square brackets be removed from the title.

It was so decided.

The delegate of France said that the word "arrangements" in "recognizing" paragraph c) should be in the singular, to conform with the title.

The Chairman said that the square brackets could be deleted from that paragraph.

It was so agreed.

In reply to remarks by the delegate of Japan, the Chairman said that any arrangements in connection with assignments in the 22 MHz band could only be taken by the 1979 Conference.

Resolution No. Aer2-[E] was approved as amended.

3.3 Resolution No. Aer2-[F]

The Chairman observed that the numbers in "resolves" paragraph 2.2 should be changed to "Nos. 553A to 557" and that the square brackets should be deleted from "resolves" paragraph 2.3.

Approved as amended.

3.4 Resolution No. Aer2-7 G_7

The delegate of Japan observed that the "recognizing" paragraphs should be numbered a), b) and c). It was so agreed.

Approved as amended.

3.5 The Committee decided to abolish Resolution No. Aer 6 of the EARC, Geneva, 1966, as proposed in the Addendum to Document No. 233.

Document No. 233 and Add. 1, as a whole, as amended, was approved.

4. Text for No. 27/16.1 (Document No. DT/46)

4.1 The Chairman recalled the agreement reached in the Committee that assigned frequencies should not appear in the Table in No. 27/16 but that a footnote should be provided indicating how they could be calculated. The draft text of the note in question was contained in Document No. DT/46.

4.2 The delegate of Canada proposed that the text of Add. 27/16.1 in Document No. DT/46 should be replaced by : "The assigned frequency of channels operating in the upper sideband A3J mode may be determined by reference to Nos. 27/72 and 27/73".

The delegates of the United Kingdom and Ireland supported the proposal.

4.3 The delegate of the United States of America considered that the reference to No. 27/73 should be deleted regardless of which text was adopted. If the Committee decided to retain the text in Document No. DT/46, the word "for" at the beginning of the second line should be replaced by the word "from".

4.4 The delegates of Sweden, Finland, Bangladesh and the USSR supported the text in Document No. DT/46 together with the change suggested by the delegate of the United States of America.

4.5 After further discussion, the Committee approved the text proposed in Document No. DT/46 subject to the replacement of the word "for" by the word "from" in the second line and the deletion of the words "and No. 27/73".

5. Note from the Chairman of Working Group 6A (Document No. 217)

5.1 The Chairman of Working Group 6A said that the draft Recommendation annexed to Document No. 217 represented a possible solution to the difficulties which had arisen in respect of the interpretation of No. 429 of the Radio Regulations in the three official languages. The Document was submitted in the form of a note from himself, because it had been considered unnecessary to convene a further meeting of Working Group 6A for the sole purpose of approving the suggested text.

5.2 The delegate of Spain proposed that the text of considering a) should be replaced by the following text : "that with a view to the introduction of operations control doubts have been expressed, with respect to the interpretation of the Spanish text, about the concordance of the text of No. 429 in the three working languages of the ITU".

5.3 The Chairman said that the intent of the amendment proposed by the Spanish delegate was clear; however, some editorial changes would no doubt be required, at least in the English version.

Replying to a question by the delegate of the USSR, he said that some Administrations questioned whether the present text of No. 429 was adequate to allow operational control communications to be carried out in the aeronautical mobile (R) bands. Since the present Conference was not competent to modify No. 429 of the Radio Regulations, it was proposed that the matter should be referred to the 1979 World Conference in order not to perpetuate the present misalignment of the official texts.

5.4 Following a discussion in which the delegates of the USSR, the United Kingdom, the United States of America, Switzerland, France, Venezuela, Tanzania, Papua New Guinea, the Chairman and the Chairman of Working Group 6A took part, and during which several amendments were proposed to the draft Recommendation, the Chairman said that he would undertake to redraft the text taking into account the comments and suggestions made and to submit a revised version to the Committee at its next meeting.

It was so agreed.

6. Regulatory procedures relating to frequencies to be designated for world-wide use (Documents Nos. 144, 221)

6.1 The Chairman drew attention to paragraph 5 of Document No. 144, which should be read in conjunction with the Note from the Chairman of Committee 5 (Document No. 221). If he heard no objection he would take it that the Committee considered that regulatory procedures additional to those already contained in the Radio Regulations were required in respect of the frequencies to be used on a world-wide basis for long-distance operational control communications.

It was so agreed.

6.2 The Chairman said that, as the Committee was too large a body in which to devise the regulatory procedures, it might set up a Working Group for the purpose, consisting of, say, seven delegations or alternatively a Working Group consisting of the Chairman, the Vice-Chairman, the Chairmen of the two Working Groups with assistance from the IFRB. Delegations particularly interested in the question would be consulted.

6.3 The delegates of Switzerland, the Federal Republic of Germany, Canada, India, Spain and the United Kingdom favoured the second alternative which was adopted.

6.4 The delegate of the USSR questioned the need to consider regulatory procedures since each country was free to use the frequencies according to its needs; the frequencies to be allotted for long-distance operational control would be on the same footing as 2 182, 3 023 or 5 680 kHz.

6.5 The delegate of India reiterated his view that a regulatory mechanism for world-wide frequencies was needed.

6.6 The delegate of Spain agreed and added that a representative of ICAO should be invited to take part in the Working Group's discussions.

6.7 The representative of the IFRB, replying to a request from the delegate of Algeria, said that the existing procedures, which could be examined for some suitable precedents, were found in Articles 9, 9A, 9B and Resolution Mar2-7. Resolution Mar2-7 was referred to in Document No. DT/41. Other procedures existed in the regional Agreements for broadcasting services.

The assignment of frequencies in the Aeronautical Mobile (R) Service in the exclusive high frequency bands, was examined under Nos. 552-560 of the Radio Regulations, in accordance with which the assignments had to be in conformity with the Allotment Plan. If there were no Plan, some of the assigned frequencies would not be covered by such provisions in the Radio Regulations. Accordingly, the IFRB considered that the Conference should adopt regulatory procedures for the utilization of the frequencies to be designated for world-wide use and their entry in the Master Register. In the absence of a specific procedure, and the examination of notification of assignments under Nos. 502 or 503 of the Radio Regulations, only the first few notifications could receive a favourable finding in view of the limited number of channels reserved for world-wide use.

The procedure of Article 9A was based upon a coordination prior to notification for each frequency assignment. The publication of the intended frequency use, for information, permitted the necessary coordination, and in case of disagreement, provisions existed for the appraisal by the IFRB of the probability of harmful interference.

Article 9B contained a procedure for bringing an existing Plan up to date in respect of coast radiotelephone stations in the Maritime Mobile Service. An Administration planning a modification of the Plan sought the agreement of the countries concerned. If it was obtained, a revision of the Plan was published, if not, the Board carried out a technical examination of the request. If an allotment included in the Plan was not brought into operation within twelve months or, in exceptional cases within eighteen months, it could be deleted (No. 639 EV).

Resolution No. Mar2-7 relating to the Maritime Mobile Service provided for another possible procedure whereby requirements were submitted to the IFRB, which assessed sharing possibilities and published the planned usage for information. No technical examination of notified assignments was carried out nor was any date for them entered in column 2 of the Master Register.

The Committee should formulate general guidelines for the Ad hoc Working Group.

6.8 The delegate of Algeria supported by the delegates of the Federal Republic of Germany and the United States of America favoured regulatory procedures of the kind laid down in Article 9B in the Radio Regulations. However, he wondered how the question of allotment would be handled seeing that for other services it was by country but for the Aeronautical Mobile (R) Service by area.

6.9 The Chairman considered that initially some procedure on the lines of that in Article 9B might be envisaged with provision for accommodating requests for frequencies made at a later stage.

6.10 The delegate of the USSR said that a procedure on a first come first served basis would be wholly unacceptable since all countries were entitled to use the frequencies in question. It would be quite wrong to turn down a request merely because it had been made at a later date.

6.11 The delegate of Portugal said that in view of the considerations set out by the IFRB in Document No. DT/41 he favoured a procedure on the lines of that contained in Resolution No. Mar2-7. The provisions of Article 9B could be fitted only into an existing Plan.

6.12 The Chairman stated that the general comments made during the discussion would be borne in mind by the Ad hoc Working Group established by the Committee.

The meeting rose at 1650 hours.

Secretary :

M. AHMAD

Chairman :

R.J. BUNDLE

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 336-E

3 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the Republic of Korea :

In connection with paragraphs 1 and 3 of the Final Protocol (Document No. 323, dated 2 March 1978), the Delegation of the Republic of Korea states its position as follows :

1. The Republic of Korea Delegation does not associate the RDARA boundaries with territorial boundaries;
2. The Republic of Korea Delegation reserves the right of its Government to safeguard its national interests as well as aeronautical and flight operations in the area.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 337-E

3 March 1978

Original : English

COMMITTEE 5

FOURTH DRAFT PLAN

As decided by Committee 5 at its Ninth Meeting, Planning Groups designated to make adjustments to the third draft Plan met during the night of 2/3 March 1978. The results of their work are presented in Annexes 1 and 2 to the present document. Annex 1 presents the draft plan band-by-band and Annex 2 presents the information in Annex 1 area-by-area.

M. CHEF

Chairman of Committee 5

Annexes : 2



ANNEXE

Quatrième projet de Plan

Titre des colonnes

Colonne 1 Fréquence kHz
Colonne 2 Zone d'emploi autorisé
Colonne 3 Observations

Explication des symboles et abréviations

Colonne 2 M = ZLAMP
 R = ZLARN
 V = VOLMET
 W = mondiale

Colonne 3 CC = voie commune à

CO01/... Dans la zone indiquée après la barre oblique, utilisation diurne

CO02/6G Dans la zone 6G, utilisation seulement à l'est de 95°E

CO03/6G Dans la zone 6G, utilisation seulement à l'ouest de 95°E

CO04/6G Utilisation limitée à l'est de 110°E

CO05/2A Utilisation limitée au nord de 60°N

CO06/6A Utilisation limitée à l'est de 75°E

ANNEX

Fourth draft Plan

Column headings

Column 1 Frequency kHz
Column 2 Authorised area of use
Column 3 Remarks

Explanation of symbols and abbreviations

Column 2 M = MWARA
 R = RDARA
 V = VOLMET
 W = world-wide

Column 3 CC = common channel to

CO01/... Restricted to daytime only, in the area indicated after the slant stroke

CO02/6G In area 6G, operation is restricted to east of 95°E

CO03/6G In area 6G, operation is restricted to west of 95°E

CO04/6G Use limited to east of 110°E

CO05/2A Use limited to north of 60°N

CO06/6A Use limited to east of 75°E

ANEXO

Cuarto proyecto de Plan

Títulos de las columnas

Columna 1 Frecuencia kHz
Columna 2 Zona de uso autorizado
Columna 3 Observaciones

Explicación de los símbolos y abreviaturas

Columna 2 M = ZRMP
 R = ZRRN
 V = VOLMET
 W = mundial

Columna 3 CC = canal común a

CO01/... En la zona indicada después del trazo oblicuo, el uso está limitado a las horas diurnas solamente

CO02/6G En la zona 6G, el funcionamiento está limitado al este de 95°E

CO03/6G En la zona 6G, el funcionamiento está limitado al oeste de 95°E

CO04/6G Uso limitado al este de 110°E

CO05/2A Uso limitado al norte de 60°N

CO06/6A Uso limitado al este de 75°E

1	2										3			
2851	M R	AFI 3C	3B	13E	13F	1D	11B	14	9C	2A	CC CC	3C 13E C001	3B 13F /1B	
2854	R	2B	2C	6B	13J						CC	2B	2C	
2857	R V	3A VAFI	3C	12E	12J	9B	10B	13I	1B		CC CC	3A 12E C001	3C 12J /1B	
2860	R V	2A VPAC	2C	13C	13J	13K	7B				CC CC	2A 13C	2C 13J	13K
2863	M R	SAT 3A	3B	6E	10B						CC	3A	3B	
2866	R	2C	6D	10A	3C							C001	/3C	
2869	M R	CEP 2A	2B	3A	13C	10E	14G				CC	2A	2B	3A
2872	M R	NAT 6A	6E	3B	13G						CC	6A	6E	
2875	R	2A	2B	3A	10A	12G	4B				CC	2A	2B	3A
2878	M R	AFI 3C	3B	13I	13J	1D	11B	14			CC CC	3C 13I	3B 13J	
2881	R V	2A VSAM	2B	3A	6C	1B					CC	2A	2B	3A
2884	R	2C	6D	3B								C001	/3B	
2887	M R	CAR 2A	2B	3A	13I	7E	14C				CC	2A	2B	3A
2890	R	6G	1B	13J	12C									
2893	R	2C	3	12F	4B	10D					CC	2C	3	

1	2 page 4						3
2896	R	2A	2B	3A			CC 2A 2B 3A
2899	M R	NAT 6G	5D	13H			
2902	R	2B	2C	3B	12J		CC 2B 2C 3B
2905	R V	3A VNAT	3C	5C	9B		CC 3A 3C
2908	R	2B	2C	3B	13M		CC 2B 2C 3B
2911	R	5B	10A	3A			C001 /3A
2914	R	2B	2C	3B	13D		CC 2B 2C 3B
2917	R	2A	6E				
2920	R	2B	2C	6B	13J	12C	CC 2B 2C
2923	R	6A	3A				C001 /3A
2926	R	2A	2C	6F	12J	10C 4A	CC 2A 2C C001 /4A
2929	R	2B	9B				C001 /9B
2932	M R	NP 2A	2C	13K			CC 2A 2C
2935	M R	SAT 3	10D				
2938	R	2					
2941	R	2A	6F				
2944	M R	MID 10A	SAM 10F	14G			

1	2										3
2947	R V	2 VCAR	3C	14A	14D	7C	12A	10F			CC 2 3C CC 14A 14D
2950	R V	12E VMID	12F	12G	12H	6C	10A	13F	7F		CC 12E 12F 12G 12H
2953	R	3A									
2956	M R	NAT 6G									
2959	R V	12F VSEA	12J	1E	13H	10C	7B				CC 12F 12J
2962	R	5B	3E								C001 /3B
2965	R	6G	4A								
2968	M R	NAT 6G	5D	13G							
2971	R	3C									
2974	R	6G	1C	13M							
2977	R	3C	1D								
2980	R	6G	1C	13D							
2983	R	3C	5A	13N							
2986	R	6G									
2989	M R	MID 13C	10A	10E							
2992	R	6G									
2995	M R V	CWP 12E VEUR	12F	12G	12H	13F	7D				CC 12E 12F 12G 12H

1	2	3
	page 6	
2998	R 6A 6E	CC 6A 6E
3001	M NCA R 11B 13K	
3004	M EA NAT R 136 9D	
3007	M NCA R 11B 13K	
3010	R 6A	
[-3 x W_]		

1	2							3			
3401	R	2B	2C	3B	13K	12C	9B	CC	2B	2C	3B
3404	R V	3A VAF1	3C	9C	9D	10B		CC	3A	3C	
								CC	9C	9D	
3407	R	2B	2C	3B	7C	12D	14D	CC	2B	2C	3B
3410	R	1D	3C	13J	11B						
3413	M R V	CEP 14A VEUR	14E	3B	13C			CC	14A	14E	
3416	R	1D	6D	2A	2B	3A		CC	2A C001	2B /2A	3A 2B 3A
3419	M R	AFI 3C	3B	9B	10D	12J	13I	CC	3C	3B	
3422	R	2A	2B	3A				CC	2A	2B	3A
3425	M R	AFI 3C	3B	9B	10D	13D		CC	3C	3B	
3428	R	2B	2C	13J	11B			CC	2B	2C	
3431	R	5B	3A	3B				CC	3A C001	3B /3A	3B
3434	R	11B	2A	2C	6F	13G		CC	2A	2C	
3437	R	6G	4A	13M	3B				C001	/3B	
3440	R	2A	2C	6F	12			CC	2A	2C	
3443	R	3A	3B	6E	11B	13N		CC	3A	3B	
3446	R	10E	13F	14	1D	6G					
3449	R	2B	2C	10A	13M			CC	2B	2C	

1	2							3
4651	R	1D	10B	10E	13E	13F	6C	CC 13E 13F
4654	W							CC 6A 6E
4657	M R	AF1 3B	CEP 6A	6E	13H			CC 6A 6E C001 /6A 6E
4660	R	13D	13M	9B	10B	2B	2C	CC 13D 13M CC 2B 2C
4663	R V	10F VNCA	13E	13F	13K			CC 13E 13F 13K
4666	M R	CWP 1C	10B	10D	10E	13G		CC 10B 10D 10E
4669	M R	MID 10C	SAM 10D					CC 10C 10D
4672	R	2A	2B	3A	11B	13K		CC 2A 2B 3A
4675	M R	NAT 6A	6E	9C				CC 6A 6E
4678	M R	NCA 10C	10D	13I				CC 10C 10D
4681	R	2B	2C	3B	12E			CC 2B 2C 3B
4684	R	3A	3C	10B	10E	13J		CC 3A 3C CC 10B 10E
4687	W							
4690	R	10B	2A	2B	3A	13M		CC 2A 2B 3A
4693	R	2B	2C	3	12C	13I	13J	CC 2B 2C 3 CC 13I 13J
4696	R	2	9	10	13J			

1	2						3
	page 10						
5451	R	11B	12F	12H	13I	13J	10F
5454	R	13J	10	13F	12E		
	R						
5457	R	10C	13N				
5460	R	10B	13D	10E	12C		
5463	R	13H	11B	13K	13M		
5466	R	11B	13G				
5469	R	10A	12E	12F	13G	10D	
5472	R	10A	13H	10D			
5475	R	10B	13I				

1	2															3		
5481	R	6G 13K	2A	2C	10C	10E	12E	12J	13E	13F	14D	14G	4B	7D	9C	CC	2A	2C
																CC	10C	10E
																CC	12E	12J
																CC	13E	13F
																CC	14D	14G
5484	R	3A	3C	6A	1B	9B	10A	12C	10D	12G	13H					CC	3A	3C
5487	R	6G	2C	10C	12E													
5490	R	2A	2B	3A	6D	10A	12C	10D	13C							CC	2A	2B 3A
5493	M R	AFI 3B	6G														C002	/6G
5496	R	2A	2B	3A	6F	10A	12C	10D	12J	13I						CC	2A	2B 3A
5499	R V	3B VAFI	6G														C002	/6G
5502	R	2A	2B	3A	6B	10C	12C	13M								CC	2A	2B 3A
5505	R	3B	6G														C003	/6G
5508	R	2B	2C	6F	9B	7	11B	12F	13N							CC	2B	2C
5511	R	3A	5B	6G													C002	/6G
5514	R	3B	3C	2C	6E	11B	13C									CC	3B	3C
5517	R	3A	6G														C002	/6G
5520	M R	CAR 2B	2C	3B	7E	6D										CC	2B	2C 3B
5523	R	6G	2A	11B	9B	12G	13I											
5526	M R	SAM 2B	2C	3B	5D	6E	14	10F								CC	2B	2C 3B

1	2 page 12											3
5529	M R	CEP 6G	2A	4A	7F	13H	13K					
5532	M R	CAR 2B	2C	3B	5D	6E	6C	14G				CC 2B 2C 3B
5535	R	6G	10B	12C	13C							
5538	R	2	3	12F								CC 2 3
5541	M R	SP 6G	2A	4A	10E	12G	13J					
5544	R	3B	3C	2C	10C	12D	13D					CC 3B 3C
5547	M R	SAT 6G	10A	9B								
5550	R	3A	3C	12	13J	1B	5B	6D	7F	10B		CC 3A 3C
5553	R	6G	11B	13C								
5556	M R	CEP 2B	2C	6D	4B	13G						CC 2B 2C
5559	M R	SP 6G	13C	13J	13K	10E	1C	5A	7B			CC 13C 13J 13K
5562	R V	3A VCAR	3B	6A	6C	14G						CC 3A 3B
5565	R	6G	5A	5C	12E	12F	12H	13E	13F	1E	7B 10B 9	CC 5A 5C CC 12E 12F 12H CC 13E 13F
5568	R	3C	2C	10D								
5571	R V	6G VNAT	7C	9D								
5574	R	2B	1C	6B	10C	12E						

1	2													3
5577	M R	NAT 6G												
5580	R V	3A 3B 6A VSAM												CC 3A 3B
5583	R	6G 2A 2C 12E 12F 13E 13F 10 4B 14 12A 13K												CC 2A 2C CC 12E 12F CC 13E 13F
5586	R	2B												
5589	R	6G												
5592	R	2B 12C												
5595	M R	NAT 6G												
5598	R	2B 12J												
5601	R	6G 1D												
5604	R	3A 5B 6B 10D												
5607	M R	NP 1D 6G												C003 /66
5610	R	6D 10A												
5613	M R	INO 6G												C002 /66
5616	R	3C 1D												
5619	V R	VEUR 6G												C002 /66
5622	R	3C												

1	2		page 14		3
5625	M R	NCA 126			
5628	M	NAT SEA			
5631	M	AFI CWP			
5634	M	EA SEA			CC EA SEA
5637	M	AFI MID			CC AFI MID
5640	M	CWP EUR			
5643	M	NCA			
5646	M	MID			
5649	M	EA			
5652	V	VSEA			
5655	V	VNCA			
5658	V	VMID			
[6 x W]					

1	2													3			
6526	R	2A	2E	3A	6F	4A	12G	14F						CC	2A	2B	3A
6529	R	6G	3B														
6532	M R	CWP 2A	2B	3A	4A	12F								CC	2A	2B	3A
6535	M R	SAT 6G	12J	2C	5D	10A	10D	12C	14B	9D							
6538	R V	3A VAFI	3B	11B	13G	9B								CC	3A	3B	
6541	R	6G	2C	10C	13C	14C											
6544	M R	SAM 3A	3B	5A	5C	10D	1C	6C						CC CC	3A 5A	3B 5C	
6547	R	6G	2A	2C	12E	12J	5D	13F	13K	10E	10B	9B	14A	CC CC	2A 12E	2C 12J	
6550	R	3A	3C	6D	5B	1B	11B	13J						CC	3A	3C	
6553	R	6G	2A	2C	12E	12F	13E	13F	10	4B	13K	9	14A	CC CC CC	2A 12E 13E	2C 12F 13F	
6556	M R	SEA 3A	3C	1	7B	10C	13C							CC	3A	3C	
6559	M R	AFI 6G	2A	11B	13J	14D	3B										
6562	M R	CWP 2B	2C	10D	13C									CC	2B	2C	
6565	R	6G	2A	4	11B	14E											
6568	R	2B	2C	3B	6D	7C	10C	13C						CC	2B	2C	3B
6571	M R	AFI 6G	2A	13M	13I	14D	10B	12C									

1	2	3
6574	M R CAR 2B 2C 3B 6D 13E 4B	CC 2B 2C 3B
6577	R V 6G 13C 13J 13K 10A 7E 14 9C 12C VEUR	CC 13C 13J 13K
6580	R 2 3 6E	CC 2 3
6583	M R CAR 6G 2C 7 13G 14C	
6586	R 3	
6589	M NCA	
6592	R 3C 3B 6D 5B 1B	CC 3C 3B
6595	M R EUR 6G 10E 10B 12E 13H 4B 9B	
6598	R 2	
6601	R V 6G 13N 1D 10A 7C 14B VNAT	
6604	R 3A 6A 6B	
6607	R 6G 1D 14F	
6610	R 3A 6B 6A	
6613	R 6G 4A 12G 14E	
6616	R 3A 6B	
6619	M R NAT 6G 12C 13D 7F 9B	
6622	M R MID 3B	

1	2								3
6625	M R	NAT 6G	13D	13M	5A	12C	7E	14	CC 13D 13M
6628	M R	MID 3B	6C						
6631	R	6G							
6634	R	3A							
6637	R	6G							
6640	M R	NP 2B	6E						
6643	R	3C	6A						
6646	M R	NP 2B	6E						
6649	R	3C							
6652	R	2B	6F	1E					
6655	R	3C							
6658	M R	AFI 6G	CEP 2A	13D	12D	10F	14B		
6661	M	EA							
6664	V	VSEA							
6667	V	VPAC							

[5 x W]

1	2						3
	page 18						
8816	R	6G	1C	12C	14G	13J	
8819	R	2B	2C	10	13C	9	CC 2B 2C
8822	R	11B	5A	5C	3B	14 13G 2A	CC 5A 5C C005 /2A
8825	M R	NAT 6G	13H	14F			
8828	R V	6D VEUR	3B	13D	12C	14G	
8831	M R	NAT 6G	13F	7F	14F		
8834	R	2B	2C	10	6C	7C 13C	CC 2B 2C
8837	R	3A	3C	4A	10B	13M 9B	CC 3A 3C
8840	R	6					
8843	M R	CEP 6G	13C	13J	13K	5D 10E 14D	CC 13C 13J 13K
8846	M R	CAR 2	3	9B	7F		CC 2 3
8849	R	2A	2C	6F	10B	13C	CC 2A 2C
8852	R V	3C VAFI	3B	12E	9B		CC 3C 3B
8855	M R	SAM 2	10A	14			
8858	R	6G	13E	13F	4A	10D 14D	CC 13E 13F
8861	M R	SAT 3A	3B	9B			CC 3A 3B

1	2										3
8864	M R	NAT 2B	6B	6F	7E	13F					CC 6B 6F
8867	M R	SP 6G	13D	13M	4A	10D					CC 13D 13M
8870	M R	NAT 6A	6E	9	13H	7B					CC 6A 6E
8873	R	6G	9C	9D	12E	12F	4	13I	10F		CC 9C 9D CC 12E 12F
8876	R	2A	6E	10A	12D	14A					
8879	M R	NAT 3B	INO								
8882	R	5	6B	14C	11B	13G					
8885	R	2									
8888	M R	NAT 6A	14E								
8891	R	3	14B	10E	12J						
8894	M R	AFI 3C	12F	14A							
8897	R	3A	14B	10C	13G						
8900	M R	AFI 10B	CWP 13M								
8903	R V	5 VNAT	14								
8906	R	2C	6D								
8909	R	2A	6E								

1	2	3
	page 20	
8912	R 5B 14C 11B 13D	
8915	R 3C 5A	
8918	M MID CAR R 6C	
8921	R 12C 13K V VSEA	
8924	M SEA R 3A	
8927	R 14E 13K V VMID	
8930	R 6A	
8933	M MID	
8936	M EA	
8939	R 1D 13N V VPAC	
[7 x W]		

1	2						3
10006	R	2A	2C	6G	12		CC 2A 2C C004 /6G
10009	R	6A	10	13G			
10012	R	2B	2C	7B	9B	13K	CC 2B 2C
10015	R	5	10	13J			
10018	R	2	6C	12D			
10021	M R	MID 6G	9	13J	13K		CC 13J 13K C003 /6G
10024	R	1	6B	12C	13G		
10027	M R	SAM 2B	2C	3B	9B		CC 2B 2C 3B
10030	R	1E	6E	13G	13H		CC 13G 13H
10033	R	3C	3B	4A	9B	12C	CC 3C 3B
10036	M R	EA 13C	13J	13K	9C		CC 13C 13J 13K
10039	R	2	3A	11B	13H	14	CC 2 3A
10042	M R	NP 2A	5D	13A	13B		CC 13A 13B
10045	R V	6A VNAT	6E	13I			CC 6A 6E
10048	M R V	CEP 3A VAFI	10F				
10051	R	1D	6F	13K			

1	2	3
	page 22	
10054	R 6G 4B 12E	C004 /6G
10057	M SEA R 1B 10A 13M	
10060	M CWP R 4A 6A 7C 13F	C006 /6A
10063	M EUR SP R 6E 13D	
10066	R 3 14 V VSAM	
10069	R 12E 12F V VNCA	CC 12E 12F
10072	R 5B 6B 11B 13N	
10075	M NCA SAM R 7D	
[7 x W]		

1	2					3
11276	R	5	9C	9D		
11279	R	2A	2C	10E	13J	66
						CC 2A 2C CC 9C 9D C002 /66
11282	M R	NAT 6F	9C	2B		
11285	M R	CEP 4A	13H	6G		C003 /6G
11288	R	2A	3B	7		CC 2A 3B
11291	R	6G	11B	7E	5A	
11294	M R	SAT 3C	3B			CC 3C 3B
11297	R	2	12F			
11300	R	2A	7C	6G		C002 /6G
11303	M R	AFI 13H	6G			C002 /6G
11306	R	6G	13G			
11309	R	6G	11B			
11312	M R	NAT 6D	3A			C003 /3A
11315	R V	6G VCAR				
11318	R	3	4A	13D		
11321	R	6A	13F			

1	2				3		
			page 24				
11324	R	2	10				
11327	R	3A	3C	4B	12C	CC	3A 3C
11330	M R	SP 5	13C	3B			
11333	M R	AFI 13F	NP 3A				
11336	R	2B	2C	10	CC	2B 2C	
11339	M R	NAT 3				C003 /3	
11342	R	2B	9	13K	6B		
11345	R	10A	6A	6E	CC	6A 6E	
11348	M R	SAM 2	3	14	CC	2 3	
11351	R	10A	1	6E			
11354	R	6B	6F	1C	13K	CC	6B 6F
11357	R	3C	13E				
11360	R	3B	6D	2C			
11363	M R	MID 10A	13C				
11366	R V	3C VEUR	13M				
11369	R	6	12E	12J	12E	12J	
11372	M R	CWP 1D	12J				

1	2	3
11375	M CAR V VSEA	
11378	R 9B 12E V VMID	
11381	M CAR EA SEA	CC EA SEA
[-5 x W_7		
page 25		

1	2		3
		page 26	
13261	V	VAFI	
13264	V	VEUR	
13267	R V	6G VNAT	
13270	M	AFI	
13273	R V	6G VNAT	
13276	V	VNCA VSAM	
13279	V	VPAC	
13282	V R	VSEA 10	
13285	M	AFI EUR MID	CC AFI EUR MID
13288	M R	NAT 6	
13291	M	AFI	
13294	M	CAR SAM EA	CC CAR SAM
13297	M R	CEP CWP NP SP 4	CC CEP CWP NP SP
13300	M	EA NCA	CC EA NCA
13303	M	NAT INO	
13306	M R	EA SEA 13C 13K	CC EA SEA CC 13C 13K
13309	M R	MID 11B 14	

1	2	3
13312	M NCA SAT	
13315	M SEA R 13	
13318	R 2 3	CC 2 3
13351	R 5 7	CC 5 7
13354	R 2 SAT	
13357	R 3 13H	
[10 x W]		
page 27		

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)											
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18	22
AFI	2851 2878	3419 3425 3467	4657		5493 5631 5637	6559 6571 6658	8894 8900		11303 11333	13270 13285 13291	17937	
CAR	2887	3455			5520 5532	6574 6583	8846 8918		11375 11381	13294	17910	
CEP	2869	3413	4657		5529 5556	6658	8843	10048	11285	13297	17904	
CWP	2995	3455	4666		5631 5640	6532 6562	8900	10060	11372	13297	17904	
EA	3004	3485 3491			5634 5649	6661	8936	10036	11381	13294 13300 13306	17910	
EUR		3479			5640	6595		10063		13285	17937	
INO		3476			5613		8879			13303	17937	
MID	2944 2989	3467 3473	4669		5637 5646	6622 6628	8918 8933	10021	11363	13285 13309	17937	
NAT	2872 2899 2956 2968 3004	3476	4675		5577 5595 5628	6619 6625	8825 8831 8864 8870 8879 8888		11282 11312 11339	13288 13303	17907	
NCA	3001 3007		4678		5625 5643	6589		10075		13300 13312	17934	
NP	2932				5607	6640 6646		10042	11333	13297	17904	
SAH	2944	3479	4669		5526	6544	8855	10027 10075	11348	13294	17910	
SAT	2863 2935	3452			5547	6535	8861		11294	13312 13354	17931	
SEA		3470 3485			5628 5634	6556	8924	10057	11381	13306 13315	17910	
SP		3467			5541 5559		8867	10063	11330	13297	17904	
1							6556	10024	11351			

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)											
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18	22
1B	2857 2881 2890	3458 3473 3488			5484 5550	6550 6592		10057				
1C	2974 2980	3464 3470	4666		5559 5574	6544	8816		11354			
1D	2851 2878 2977	3410 3416 3446	4651		5601 5607 5616	6601 6607	8939	10051	11372			
1E	2959	3491			5565	6652		10030				
2	2938 2947		4696		5538	6580 6598	8846 8855 8885	10018 10039	11297 11324 11348	13318 13354	17928	
2A	2851 2860 2869 2875 2881 2887 2896 2917 2926 2932 2941	3416 3422 3434 3440 3455	4672 4690		5481 5490 5496 5502 5523 5529 5541 5583	6526 6532 6547 6553 6559 6565 6571 6658	8822 8849 8876 8909	10006 10042	11279 11288 11300			
2B	2854 2869 2875 2881 2887 2896 2902 2908 2914 2920 2929	3401 3407 3416 3422 3428 3449	4660 4672 4681 4690 4693		5490 5496 5502 5508 5520 5526 5532 5556 5574 5586 5592 5598	6526 6532 6562 6568 6574 6640 6646 6652	8819 8834 8864	10012 10027	11282 11336 11342			

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)											
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18	22
2C	2854	3401	4660		5481	6535	8819	10006	11279			
	2860	3407	4681		5487	6541	8834	10012	11336			
	2866	3428	4693		5508	6547	8849	10027	11360			
	2884	3434			5514	6553	8906					
	2893	3440			5520	6562						
	2902	3449			5526	6568						
	2908	3455			5532	6574						
	2914				5544	6583						
	2920				5556							
	2926				5568							
	2932				5583							
3	2893		4693		5538	6580	8846	10066	11318	13318	17925	
	2935					6586	8891		11339	13357		
3A												
	2857	3404	4672		5484	6526	8837	10039	11312			
	2863	3416	4684		5490	6532	8861	10048	11327			
	2869	3422	4690		5496	6538	8897		11333			
	2875	3431			5502	6544	8924					
	2881	3443			5511	6550						
	2887	3452			5517	6556						
	2896				5550	6604						
	2905				5562	6610						
	2911				5580	6616						
	2923				5604	6634						
	2953											
3B	2851	3401	4657		5493	6529	8822	10027	11288			
	2863	3407	4681		5499	6538	8828	10033	11294			
	2872	3413			5505	6544	8852		11330			
	2878	3419			5514	6559	8861		11360			
	2884	3425			5520	6568	8879					
	2902	3431			5526	6574						
	2908	3437			5532	6592						
	2914	3443			5544	6622						
	2962				5562	6628						
					5580							
3C	2851	3404	4684		5484	6550	8837	10033	11294			
	2857	3410			5514	6556	8852		11327			
	2866	3419			5544	6592	8894		11357			
	2878	3425			5550	6643	8915		11366			
	2905	3452			5568	6649						
	2947				5616	6655						
	2971				5622							
	2977											
	2983											
4							6565			13297	17904	
							8873					

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)											
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18	22
4A	2926 2965	3437 3491			5529 5541	6526 6532 6613	8837 8858 8867	10033 10060	11285 11318			
4B	2875 2893	3470			5481 5556 5583	6553 6574 6595		10054	11327			
5							8903	8882 10015	11276 11330	13351	17922 17940	
5A	2983	3452			5559 5565	6544 6625	8822 8915		11291			
5B	2911 2962	3431 3488			5511 5550 5604	6550 6592	8912	10072				
5C	2905	3452			5565	6544	8822					
5D	2899 2968	3482			5526 5532	6535 6547	8843	10042				
6								8840	11369	13288	17919	
6A	2872 2923 2998 3010	3479	4657 4675		5484 5562 5580	6604 6610 6643	8870 8888 8930	10009 10045 10060	11321 11345			
6B	2854 2920	3479 3488			5502 5574 5604	6604 6610 6616	8864 8882	10024 10072	11342 11354		17931	
6C	2881 2950	3473	4651		5532 5562	6544 6628	8834 8918	10018				
6D	2866 2884	3416			5490 5520 5550 5556 5610	6550 6568 6574 6592	8828 8906		11312 11360			
6E	2863 2872 2917 2998	3443	4657 4675		5514 5526 5532	6580 6640 6646	8870 8876 8909	10030 10045 10063	11345 11351			
6F	2926 2941	3434 3440			5496 5508	6526 6652	8849 8864	10051	11282 11354			

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)											
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18	22
66	2890 2899 2956 2965 2968 2974 2980 2986 2992	3437 3446 3464 3482			5481 5487 5493 5499 5505 5511 5517 5523 5529 5535 5541 5547 5553 5559 5565 5571 5577 5583 5589 5595 5601 5607 5613 5619	6529 6535 6541 6547 6553 6559 6565 6571 6577 6583 6595 6601 6607 6613 6619 6625 6631 6637 6656	8816 8819 8825 8831 8843 8858 8867 8873	10006 10021 10054	11279 11285 11291 11300 11303 11306 11309 11315	13267 13273	17916	
7						5508 6583			11288	13351		
7B	2860 2959	3455			5559 5565	6556	8870	10012				
7C	2947	3407			5571	6568 6601	8834	10060	11300			
7D	2995				5481			10075				
7E	2887	3485			5520	6577 6625	8864		11291			
7F	2950	3461			5529 5550	6619	8831 8846					
9			4696		5565	6553	8819 8870	10021	11342			
9B	2857 2905 2929	3401 3419 3425 3476	4660		5484 5508 5523 5547	6538 6547 6595 6619	8837 8846 8852 8861	10012 10027 10033	11378			
9C	2851	3404 3461	4675		5481	6577	8873	10036	11276 11282			

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)											
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18	22
9D	3004	3404			5571	6535	8873		11276			
10			4696	5454	5583	6553	8819 8834	10009 10015	11324 11336	13282	17913	
10A	2866 2875 2911 2944 2950 2989	3449 3470		5469 5472	5484 5490 5496 5547 5610	6535 6577 6601	8855 8876	10057	11345 11351 11363			
10B	2857 2863	3404 3467 3488	4651 4660 4666 4684 4690	5460 5475	5535 5550 5565	6547 6571 6595	8837 8849 8900					
10C	2926 2959	3491	4669 4678	5457	5481 5487 5502 5544 5574	6541 6556 6568	8897					
10D	2893 2935	3419 3425 3458	4666 4669 4678	5469 5472	5484 5490 5496 5568 5604	6535 6544 6562	8858 8867					
10E	2869 2944 2989	3446 3473	4651 4666 4684	5460	5481 5541 5559	6547 6595	8843 8891		11279			
10F	2947		4663	5451	5526	6658	8873	10048				
11B	2851 2878 3001 3007	3410 3428 3434 3443	4672	5451 5463 5466	5508 5514 5523 5553	6538 6550 6559 6565	8822 8882 8912	10039 10072	11291 11309	13309	17928	
12		3440			5550			10006			17901	
12A	2947				5583							
12C	2890 2920	3401 3464	4693	5460	5484 5490 5496 5502 5535 5592	6535 6571 6577 6619 6625	8816 8828 8921	10024 10033	11327			

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)											
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18	22
12D		3407			5544	6658	8876	10018				
12E	2857 2950 2995	3461 3488	4681	5454 5469	5481 5487 5565 5574 5583	6547 6553 6595	8852 8873	10054 10069	11369 11378			
12F	2893 2950 2959 2995	3461 3488		5451 5469	5508 5538 5565 5583	6532 6553	8873 8894	10069	11297			
12G	2875 2950 2995	3461 3488			5484 5523 5541 5625	6526 6613						
12H	2950 2995	3461 3488		5451	5565							
12J	2857 2902 2926 2959	3419			5481 5496 5598	6535 6547	8891		11369 11372			
13											13315 17916	
13A									10042		17940	
13B									10042		17940	
13C	2860 2869 2989	3413 3458 3473			5490 5514 5535 5553 5559	6541 6556 6562 6568 6577	8819 8834 8843 8849	10036	11330 11363	13306		
13D	2914 2980	3425 3467	4660	5460	5544	6619 6625 6658	8828 8867 8912	10063	11318			
13E	2851	3491	4651 4663		5481 5565 5583	6553 6574	8858		11357		17940	
13F	2851 2950 2995	3446 3476	4651 4663	5454	5481 5565 5583	6547 6553	8831 8858 8864	10060	11321 11333		17940	

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)											
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18	22
13G	2872 2968 3004	3434 3470	4666	5466 5469	5556	6538 6583	8822 8882 8897	10009 10024 10030	11306			
13H	2899 2959	3455 3485	4657	5463 5472	5484 5529	6595	8825 8870	10030 10039	11285 11303	13357		
13I	2857 2878 2887	3419	4678 4693	5451 5475	5496 5523	6571	8873	10045				
13J	2854 2860 2878 2890 2920	3410 3428 3458	4684 4693 4696	5451 5454	5541 5550 5559	6550 6559 6577	8816 8843	10015 10021 10036	11279			
13K	2860 2932 3001 3007	3401 3458 3464	4663 4672	5463	5481 5529 5559 5583	6547 6553 6577	8843 8921 8927	10012 10021 10036 10051	11342 11354	13306		
13M	2908 2974	3437 3449	4660 4690	5463	5502	6571 6625	8837 8867 8900	10057	11366			
13N	2983	3443		5457	5508	6601	8939	10072				
14	2851 2878	3446 3461 3479			5526 5583	6577 6625	8822 8855 8903	10039 10066	11348	13309	17907	
14A	2947	3413				6547 6553	8876 8894					
14B		3488				6535 6601 6658	8891 8897					
14C	2887	3452				6541 6583	8882 8912					
14D	2947	3407			5481	6559 6571	8843 8858					
14E		3413				6565 6613	8888 8927					
14F		3488				6526 6607	8825 8831					

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)											
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18	22
146	2869 2944				5481 5532 5562		8816 8828					
VAFI	2857	3404			5499	6538	8852	10048		13261		
VCAR	2947				5562				11315			
VEUR	2995	3413			5619	6577	8828		11366	13264		
VMID	2950				5658		8927		11378			
VNAT	2905	3485			5571	6601	8903	10045		13267 13273		
VNCA		3461	4663		5655			10069		13276		
VPAC	2860					6667	8939			13279		
VSAM	2881				5580			10066		13276		
VSEA	2959	3458			5652	6664	8921		11375	13282		

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 338-E

3 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the Yemen Arab Republic :

In signing the Final Acts of the World Administrative Radio Conference of the Aeronautical Mobile (R) Service (Geneva, 1978), the Delegation of the Yemen Arab Republic reserves the right of its Government to :

1. Consider the text of ADD 27/8A as for communications between aeronautical stations and aircraft in flight.
2. Communication between any aircraft on ground in the Yemen Arab Republic and any station outside its territory is not allowed.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 339-E

3 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the People's Democratic Republic of Yemen :

In signing the Final Acts of the World Administrative Radio Conference on the Aeronautical Mobile (R) Service (Geneva, 1978), the Delegation of the People's Democratic Republic of Yemen reserves the right of its Government to :

1. Consider the texts of ADD 27/8A.1 and MOD 27/9 of Appendix 27 (Rev.) as for communications between aircraft stations in-flight and appropriate aeronautical stations only.
2. Authorize or prohibit aircraft stations on ground to communicate with aeronautical stations or any other telecommunication station located outside the territory of the People's Democratic Republic of Yemen.



AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 340-E

3 March 1978

Original : French/English

SUMMARY RECORD

OF THE

SIXTH MEETING OF COMMITTEE 5

(PLANNING)

Saturday, 25 February 1978, at 0900 hrs and 1500 hrs

Chairman : Mr. M. CHEF (France)

Subjects discussed :

Document No.

- | | |
|--|--|
| 1. Summary Record of the Fourth Meeting | 231 |
| 2. Consideration of the provisions of Articles 1 and 2 of Section II, Part II of Appendix 27 (Nos. 27/186 to 27/188, 27/192 to 27/194) | DT/1 (pp. 99, 100, 109, 110)
204 |
| 3. Report of Working Group 5A | - |
| 4. Report of Working Group 5B | 164 (Rev.2)
185 (Rev.1)
207 (Rev.1)
DT/45 (Rev.1) |
| 5. Report of Working Group 5C | 234 |
| 6. Second Report of Committee 6 | 224 |
| 7. Frequency separation required between assigned frequencies at aeronautical stations | 243 |



1. Summary Record of the Fourth Meeting (Document No. 231)

During the consideration of the Summary Record of the Fourth Meeting, the following amendments were made to different paragraphs :

4B.1 Replace the text of the paragraph by the following :

"The delegate of Brazil said that his delegation had completed its discussions with the countries covered by MWARA-CAR, referred to during the Second Meeting (paragraph 2.4 of the Summary Record), and that as they had not reached a common agreement the Brazilian delegation had decided not to present the proposal concerning the modification of the boundaries of that MWARA. The Brazilian delegation was very grateful for the efforts of the delegate of Peru and of the Administration of Peru concerning that matter."

4B.2 Delete the words "since the necessary ... adopted".

4C.8 Read : "The delegate of the Republic of Afghanistan ...".

4D.3 Read : "The delegate of the Democratic People's Republic of Korea ...".

5A.1 Read, in the last two lines : "by reducing the maximum point north from the North Pole to 75°N and the maximum point south from the South Pole to 65°S."

6.33 Replace : "of Pakistan" by "of the Islamic Republic of Pakistan" (see also the corrigendum to Document No. 231).

6.34 Read : "The delegate of the Republic of Korea" and delete the word "also".

6.43 Add the following words : "as a provisional measure to meet the requirements of the computer program".

The Summary Record of the Fourth Meeting of Committee 5, as amended, was approved.

2. Consideration of the provisions of Articles 1 and 2 of Section II, Part II of Appendix 27 (Nos. 27/186 to 27/188, 27/192 to 27/194) (Document No. DT/1, pages 99, 100, 109 and 110)

2.1 MOD 27/186, NOC 27/187. Adopted.

2.2 MOD 27/188. Adopted, with the amendments proposed by the United States (USA/4/43) and five other Administrations. The USSR withdrew its proposal (URS/29/30).

2.3 MOD 27/192. Adopted, with the following amendment : replace "27/53" by "27/52".

2.4 MOD 27/193. After a discussion, it was agreed to maintain only the beginning of the existing provision, namely : "A frequency allotted on a 'daytime basis' may be used during the period one hour after sunrise to one hour before sunset", the end of the sentence being deleted. The text as amended was adopted.

2.5 MOD 27/194. The Chairman stated that the provision had been maintained without change by Committee 6 (Document No. 204); Committee 5 should therefore do the same. The delegate of the USSR pointed out that proposal URS/29/32 was not intended to delete the provision but simply to transfer it to Section I of Part I, which contained all the definitions. However, in view of the fact that Committee 6 has already taken a decision, his delegation would not press its proposal.

The existing text was accordingly maintained without change.

3. Report of Working Group 5A

3.1 The Chairman of Working Group 5A said that no agreement had yet been reached on the region between 20° and 40° N, as far as the new sub-area 6G was concerned. However, the proposal in paragraph 3.5 of the summary record of the fifth meeting of the Committee (Document No. 292) seemed to take due account of the technical requirements for planning in that region. He therefore recommended the adoption of a compromise proposal, reading as follows: "Leave a space between new sub-area 6G and 6B/F, i.e. between $32^{\circ} 30' N$, $124^{\circ} E$ and $25^{\circ} N$, $123^{\circ} E$. The following explanatory note will appear on the map: 'In this neighbourhood the limits of sub-areas 6B/F and 6G are not defined'. That note would also be included in the description of sub-areas 6B, 6F and 6G."

3.2 The delegate of the People's Republic of China reserved the right to speak in the Plenary Meeting in order to explain his objections to that proposal as far as the eastern part of sub-area 6G was concerned.

3.3 The delegate of Japan expressed his gratitude to the Chairman of the Committee and the Chairman of Working Group 5A for the untiring efforts they had made to meet requirements in RDARA 6. He nevertheless also wished to reserve his position, with a view to making a statement in the Plenary Meeting on the proposed compromise.

Due note being taken of the reservations just made, the Recommendation put forward by the Chairman of Working Group 5A was approved, and it was decided to submit it to the Plenary Meeting.

3.4 The Chairman of Working Group 5A explained that there had been lengthy discussions in the Group, which were still continuing, on the allotment areas between the Equator and parallel $20^{\circ} N$. He hoped that the negotiations would lead to an acceptable compromise and urged the delegations concerned once again to do everything possible to reach a satisfactory solution. He would report on the progress made at the next meeting of Committee 5.

The Chairman reminded the Committee that the deadline for the conclusion of negotiations on the subject was the afternoon of Monday, 27 February.

4. Report of Working Group 5B (Documents Nos. 164 (Rev.2), 185 (Rev.1), 207 (Rev.1), DT/45 (Rev.1)).

4.1 Document No. 164 (Rev. 2)

The Chairman of Working Group 5B introduced the document and congratulated the various Administrations on the spirit of collaboration they had shown in their work, which had made it possible to reduce the frequency requirements for MWARA considerably and to arrive at an agreement on the use of common channels.

4.2 The delegate of the Federal Republic of Germany observed that no frequency requirement had been reduced as much as for MWARA EUR. He therefore proposed that in band IV a frequency should be shared with the MWARA for AFI, MID and INO.

The delegates of the German Democratic Republic, the People's Republic of Poland, the Czechoslovak Socialist Republic, the Netherlands and the Socialist Republic of Roumania supported the proposal.

4.3 The Chairman of Working Group 5B said that the question had been considered in the Working Group, where the opinion had been that in future it should be possible to transfer the load of HF communications in the Europe Region to VHF.

The Chairman said that the appropriate conclusions should be drawn from what had just been said in the last stage of work on the Plan. The proposal by the Federal Republic of Germany, which had been supported by several delegations, would be adopted, on the understanding, however, that the decision was for the time being a provisional one, relating to Document No. 164 (Rev.2).

4.4 The delegate of the Democratic People's Republic of Korea, whose opinion was shared by the delegate of the USSR, suggested adding a channel in band IV (13.3 MHz) for NCA.

The delegate of China thought that the Korean delegate's proposal was hardly acceptable.

The delegate of Norway pointed out that the Conference had to arrive at a workable plan and that the Korean proposal would make that more difficult since it involved adding a new channel.

The delegate of Australia observed that the 13.3 MHz band was particularly tricky to deal with and could not meet all requirements, so that each Administration ought, as far as possible, to reduce its requirements to a minimum.

4.5 The Chairman noted that only 33 channels were available in the 13.3 MHz band and that any increase would make it more difficult to agree on the Plan. The Committee should not lose sight of the consequences of any addition of frequencies, namely, the danger of lowering the quality of air/ground communications and of air navigation security. He urged participants to do everything possible to coordinate and reduce their frequency requirements in the light of the needs of air traffic. Document No. 164 (Rev.2) was still only provisional; the key parts would be established during the following week of the Conference. The Committee should bear in mind the risks it would be taking by allowing the addition of new frequencies. The aim that everyone was seeking, in the interests of all the world's aircraft, was to arrive at a satisfactory compromise so that a second draft Plan could be drawn up to which delegations would have to apply themselves with all due diligence so that the final Plan could be drawn up by the end of the Conference.

4.6 The Chairman of Working Group 5B expressed his regret at the proposal made earlier by the delegate of Korea, which was at odds with the need for reductions.

The Chairman was of the same opinion. The proposal in question would nevertheless be adopted provisionally, with reference to Document No. 164 (Rev.2), and as an ideal solution if there was any chance of applying it.

Due note being taken of the foregoing discussion, Document No. 164 (Rev.2) was approved as amended.

4.7 Document No. 185(Rev.1)

The Chairman of Working Group 5B briefly introduced the document and said that it had been possible to make an 18 % reduction in the total requirements put forward.

4.8 The Chairman added a few words of explanation on the circulation of meteorological information by the pilots of aircraft in flight. There being no objections, Document No. 185(Rev.1) was approved on a provisional basis.

4.9 Document No. 207(Rev.1)

The Chairman drew attention to an amendment to be made in RDARA 4A, on page 3. Document No. 207(Rev.1) was the result of very fruitful exchanges of views that had taken place between members of the small group set up previously by Committee 5 and the various delegations concerned. Among the various factors to be considered, mention should be made of the difference between regional services and national services, whose limits were narrower, and the fact, firstly, that the peak traffic hours were during the daytime and, secondly, that the power of the transmitters was lower than that of the transmitters used for the major stations in international and world aeronautical traffic.

4.10 The delegate of the People's Republic of Angola announced that he had coordinated his position with the delegate of Zaire and requested that on page 4 of Document No. 207(Rev.1), under 7F, the figures "2", "3" and "2" should be inserted in columns I, II and III respectively.

It was so decided.

4.11 The delegate of Norway considered that several RDARAs and Sub-RDARAs were already overloaded and that in view of the limited number of channels available and the limited time left to the Conference, it was essential that delegations should reconsider their positions with a view to arriving at a viable plan.

4.12 The delegate of China stated that the figures for 6G (page 4) could be reduced as follows : column II, replace "56" by "53"; column II, replace "35" by "34".

The Chairman congratulated the delegation of China on the example of cooperation it had just given and said that the necessary corrections would be made to Document No. 207(Rev.1).

4.13 The Chairman, replying to a comment by the delegate of Japan, said that the figures in Document No. 207(Rev.1) were merely provisional, being the outcome of initial voluntary consultations with the delegates concerned.

4.14 The delegate of Malaysia, supported by the delegate of Indonesia, said that his country needed a frequency, which it was ready to share in the 13.3 MHz band, for RDARA 6C or 6D (page 4).

The Chairman took note of that request and said that he would report later on the action, if any, that could be taken on it.

4.15 The delegate of Algeria observed that most countries interested in RDARA 7D were not represented at the Conference but also needed frequencies to develop their national services. He therefore proposed that the figures for 7D in columns II and III should be replaced by "3" and "2" respectively.

The delegate of Angola supported that proposal.

4.16 The delegate of Papua New Guinea said that on page 5 the figure "1" for Area 9 in column IV could be deleted.

It was so agreed.

The delegate of Papua New Guinea added that for Sub-Area 9B, the present figures in columns I, II and III should be replaced by "8", "10" and "10".

The Chairman of Working Group 5B replied that the question had been discussed in the Working Group and that in its opinion the requirements given for Area 9B duly reflected the existing situation.

The Chairman said that the question would be further discussed outside the Meeting.

4.17 The Chairman, replying to comments by the delegates of Roumania and Greece, explained that the requirements for the 18 MHz band were considered to be covered because that band was included in MWARAs-EUR and also because the use of 18 MHz was very limited in the solar cycle.

4.18 The delegate of the United States of America asked delegations to be as objective as possible in their requests so that a viable Plan could be arrived at. As regards the Algerian proposal, supported by the People's Republic of Angola, he thought it inadvisable that an Administration should intervene in a region with which it was not directly concerned. For RDARA 12 (page 5), the figure "6" in column III could be replaced by "1" and for RDARA 12D (page 6), the figure "4" in column II could be replaced by "2".

The Chairman thanked the delegation of the United States for the reductions it had just agreed to for RDARA 12.

The delegate of Cuba said that he had no objection to the United States proposal, but wished to point out that some Administrations belonging to that regional or national area were not represented at the Conference. He wondered whether they would agree with the suggested reductions.

The Chairman noted that the replies of all Administrations showed a wish to maintain the status quo.

4.19 The delegate of the Philippines supported the request made by the delegate of Malaysia for allocation of a channel in the 13.3 MHz band. If no such channel were available, he requested the opportunity to share an available channel.

4.20 The delegate of the United Kingdom, on behalf of Region 12, supported the United States proposal to reduce the allotments in 12 D.

The United States proposal was adopted.

4.21 The Chairman, replying to the delegate of Zaire who had requested a frequency in the 13.3 MHz band, pointed out that a common frequency in the 13 MHz band was available in RDARA 7.

4.22 The delegate of Singapore said that his Administration would welcome the opportunity to share a channel.

The Chairman noted that the delegates of Malaysia, Indonesia, Singapore and the Philippines would agree to share a channel. The results of the computer calculations would be submitted to a later meeting.

4.23 Replying to the delegate of Algeria, he said he would ascertain if Madagascar was represented at the Conference or not and inform him of the position as soon as possible.

4.24 The Chairman of Working Group 5B observed that proposals for changes had not been raised in the Working Group in which all areas had been represented.

Document No. 207(Rev.1) was approved, subject to confirmation of the registration of Madagascar.

4.25 Document No. DT/45(Rev.1)

The Chairman of Working Group 5B explained that the revised version of the document had been produced to cover the work of Sub-Working Group 5B1 on the tabulation of frequencies required to serve the long distance control function. A very large number of requirements had been submitted.

The Chairman of Sub-Working Group 5B1 introduced Document No. DT/45(Rev.1). Fifteen Administrations representing all regions had served on the Sub-Working Group and unanimous agreement had been reached on the text of the Report.

4.26 The delegate of the Union of Soviet Socialist Republics, supported by the delegates of Bulgaria and Niger, believed that the total number of 81 frequencies suggested for long distance operational control under Section D should be reduced to 50 since all aeronautical mobile radio services must receive equal treatment in the Plan. In addition priority must be given to safety services. The occupancy factor should be increased from 40 % to 60 or 70 % to provide for a better use of channels and take account of the projected traffic increase up to 1990.

The Chairman of Sub-Working Group 5B1 recalled that an average figure of 40 % in channel occupancy had been generally accepted. In some cases, that figure would in fact be exceeded and overall channel occupancy would increase from 35 % to 44 %.

The delegate of Czechoslovakia suggested that channel occupancy be increased to about 60 % and the number of channels reduced.

4.27 The delegate of the United States of America, supported by the delegates of Spain and the Federal Republic of Germany, believed that all messages transmitted by the aeronautical operational control services might be said to have an air safety element to them. From the practical point of view it would be virtually impossible to increase channel occupancy to 60 %, for radio operators dealing with air traffic also had to maintain contacts with airline companies, meteorological stations etc. Following a very detailed study of the position, it had been concluded that an average of 40 % loading was the maximum percentage which could reasonably be achieved in practice.

The representative of ICAO observed that the point made by the delegate of the USSR might be met if the 22 MHz column were disregarded. Document DT/45(Rev.1) showed only 63 frequencies up to and including the 18 MHz band.

The Chairman of Working Group 5B pointed out that the Group had considered requirements from a traffic engineering point of view and that if channel occupancy were increased, access delays would be increased proportionally. The number of channels suggested represented 15 % of all channels available.

4.28 The delegate of Algeria shared the concern expressed by the delegates of the Union of Soviet Socialist Republics and Niger. If requirements were to be met in so far as possible once the Plan was agreed upon, it might be premature to consider the question in detail and preferable to defer the debate.

The Chairman failed to understand the previous speaker. He stressed that all Administrations without exception had requested frequencies for long distance operations and all clearly needed frequencies to be allotted in the 22 MHz band for operational control. It had been said that priority should be given to air safety. If some Administrations were to insist on certain regional needs it would be impossible to provide long distance links for all Administrations. The present occasion was the first on which consideration was given to requirements for long distance operational control. Administrations must assume their responsibilities. The Agenda of the Conference clearly stated that the requirements should be satisfied within the minimum necessary spectrum and CCIR had concluded that a channel bandwidth of 3 kHz was adequate in all bands. A major effort had been made to meet all requirements and it must be borne in mind that the Plan was intended to meet requirements for "world-wide" allotments as well.

4.29 The delegate of Niger understood that flight safety was mainly ensured by air traffic control centres and that the frequencies allotted were to be used by such centres. All ground/air messages were indeed linked with air safety. Messages dealing only with air safety were transmitted very rapidly and limited provision was required for them.

The meeting was suspended at 1300 hrs and resumed at 1500 hrs.

4.30 The Chairman urged the Committee to bear in mind the injunction in No. 130 of the Convention about limiting the number of frequencies and the spectrum used to the essential minimum and the terms of No. 694 in the Radio Regulations according to which all stations should radiate only as much power as was necessary to ensure a satisfactory service.

Differences of opinion about the scale of requirements, occupancy coefficients and the priorities to be selected for establishing the Plan had emerged but all Administrations had indicated to the IFRB that frequencies for world-wide operational control purposes were needed.

4.31 The delegate of Sweden was surprised that some delegations were proposing a 60 % occupancy after Sub-Working Group 5B1 had agreed on 40 % before estimating the total number of channels in the light of certain technical and operational assumptions. The figure of 40 % was an average spread over 10 hours during which a channel was supposed to be usable for propagation. Traffic density would vary and occupancy during peak hours was likely to exceed 60 % or 80 %. Therefore, if an average of 60 % occupancy were chosen, channels might become blocked during peak hours which was unacceptable to his Administration since the safety of aircraft would be at stake.

A comparison had been made between the requirements of air traffic control and world-wide operational control and his delegation did not consider that to set aside 15 % for the latter would be excessive. Moreover that figure had been based on anticipated traffic.

As far as air traffic control was concerned, not much thought had been given either to the volume of traffic or sharing possibilities. It had been argued that the emergence of new States would create a need for additional frequencies, but in his opinion the only acceptable criterion for an increase was changes in the air route structure likely to require an increase in air traffic control communications.

4.32 The delegate of Denmark said that operational experience showed that a 40 % occupancy would be reasonable.

4.33 The delegate of the United States of America agreed that any figure in excess of a 40 % circuit occupancy would be unrealistic.

In the Aeronautical Service MWARA and RDARA assignments the channel was for the most part operated in the general purpose mode and was open to all categories of traffic so that an operator who had to conform to ICAO standards and practices might have to make difficult decisions about priorities as between different messages.

Some Administrations imposed a legal, mandatory requirement concerning operational control communications. For example, any United States air carrier had to prove control capability before it could be issued with a certificate to operate on any part of a route anywhere in the world.

4.34 The delegate of the USSR said that in its national area his Administration had wide experience of operational control and statistics on the subject were available. Control was exercised from the moment that aircraft took off on flights of 1500 km or more to the east or central Asia. The coefficient of channel utilization was 50 % and 65 %.

4.35 The delegate of the United Kingdom said that initially his delegation had questioned the utilization factor calculated by the Sub-Working Group but after studying the question agreed that it represented a good average figure for planning purposes. It would increase at peak periods. The Sub-Working Group had made a good analysis of requests which would be regarded as bona fide. The figures in paragraph 7 of its report were acceptable and should be taken into account in the Plan.

4.36 The delegates of the Federal Republic of Germany, the United States of America, Japan, Italy and Spain considered that the figures in paragraph 7 of the Sub-Working Group's report were reasonable and should be accepted.

4.37 The delegate of Senegal pointed out that as the first draft Plan showed that a reduction in the number of frequencies of some 35 % would be needed, the requirements for world-wide operational control as stated in the Sub-Working Group's report were not likely to be met. Perhaps the figures should be fed into the computer so as to establish what adjustments downward would have to be made.

4.38 The delegate of Australia agreed that there was little point in discussing reductions in requirements before the second draft Plan was available.

4.39 The delegate of Switzerland, supported by the delegate of the Netherlands, suggested that a parallel plan based on 90 % or 80 % of stated requirements might be prepared as a working document.

4.40 The delegate of Algeria said that further consideration of the Sub-Working Group's report might be deferred and the figures treated as provisional pending receipt of the second computer run.

4.41 The delegate of Denmark said the Committee would have to decide which RDARA requirements for world-wide operational control were the most important.

4.42 The Chairman suggested that further consideration of the report be postponed until the following meeting when the second draft Plan based on the frequency requirements used in Document Nos. 164(Rev.3), 185(Rev.1) and 207(Rev.2) would have been circulated.

It was so agreed.

5. Report of Working Group 5C (Document No. 234)

5.1 The Chairman of Working Group 5C presented its report (Document No. 234) and stated that useful comments had been received from four delegations. For the most part they pointed out errors which had been corrected. He hoped that the final matrices would be circulated on 27 February.

5.2 The Chairman thanked Working Group 5C for its excellent technical work.

He noted that Committee 4 had adopted a protection criterion for the 13, 18 and 22 MHz bands which took account of separation in time or longitudinal separation. In the first computer run a separation of 120° for the 13 MHz and 90° for the 18 and 22 MHz bands had been used. He would propose that a narrower sharing possibility be tried i.e. 90° for the 13 MHz band and 60° for the 18 and 22 MHz bands.

It was so agreed.

Document No. 234 was approved.

6. Second report of Committee 6 (Document No. 224)

6.1 The Chairman stated that the Plenary had referred the second report of Committee 6 to Committee 5 and he wondered whether Working Group 5B might be asked to prepare a draft relating to Recommendation D based on Document DT/45(Rev.1) and the proposals from delegations concerning the 22 MHz band.

6.2 The Chairman of Working Group 5B said that he understood that the Conference was not empowered to make changes in the provisions of Appendix 27 relating to the 22 MHz band. Presumably Recommendation No. D was addressed to the 1979 WARC.

6.3 The Chairman of Committee 4 explained that the Annex to Recommendation No. D was incomplete and Committee 7 would be adding to it the sharing criteria for the 22 MHz band.

6.4 The delegate of Algeria pointed out that Committee 4 would have to decide on the separation before the new frequencies could be inserted in the table in No. 27/16. At the outset the new band to be inserted in No. 27/10 should be at the lowest or the highest frequency but not in the middle.

6.5 The delegate of Norway considered that in the interests of flexibility the band in Recommendation D might be qualified as 21 870 - 22 000 kHz "or an appropriate band of the same order of megacycles". In contrast to the present Conference, the 1979 WARC was competent to discuss the whole spectrum.

6.6 The Chairman of Working Group 5B stated that the Working Group would only deal with the Annex to Recommendation No. D and not with the Recommendation itself which was a matter for Committee 6.

The Annex to Recommendation No. D was referred to Working Group 5B.

7. Frequency separation required between assigned frequencies at aeronautical stations (Document No. 243)

7.1 The delegate of Ireland, submitting the request of Canada and Ireland in Document No. 243, said that the words "between channels" should be inserted after the word "separation" in the first line of paragraph a). The two delegations felt bound to draw attention to the recurring problem of interchannel interference at the Gander and Shannon Aeronautical Stations. They were asking for a minimum frequency separation between channels and for frequencies assigned to Aeronautical Stations with large frequency complements to be selected in such a way that they would not be subject to intermodulation product-type of interference.

7.2 The Chairman said that the point dealt with in paragraph b) of the document had been considered by the CCIR and had been discussed in Committee 4 which had concluded that it was a problem peculiar to individual Aeronautical Stations. Once the results were received from the computer it might be possible to accommodate such special requirements.

The meeting rose at 1615 hrs.

Secretary :

M. SANT

Chairman :

M. CHEF

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 341-E

3 March 1978

Original : English

COMMITTEE 5

SUMMARY RECORD

OF THE

SEVENTH MEETING OF COMMITTEE 5

(PLANNING)

Monday, 27 February 1978, at 1405 hrs

Chairman : Mr. M. CHEF (France)

Subjects discussed

Document No.

- | | |
|---|--------------|
| 1. Report by Working Group 5A | DT/54 |
| 2. Report by Working Group 5B | 224 |
| 3. Report by Working Group 5C | 234 (Rev.1) |
| 4. Consideration of the second draft Plan | DT/52; DT/55 |
| 5. World-wide allotment areas and associated frequency requirements | DT/45; 252 |



1. Report by Working Group 5A (Document No. DT/54)

1.1 The Chairman of Working Group 5A, introducing the document, explained that it contained the substance of the item reported at the previous meeting of the Committee.

1.2 The delegate of China said that his delegation's position concerning the eastern boundary of Sub-RDARA 6G, as stated at the previous meeting of the Committee, remained unchanged.

1.3 The delegate of Japan said that he would express his views on the proposals in the next Plenary.

1.4 The delegate of the Republic of Korea said that he accepted the proposal contained in the document in a spirit of compromise, although it was a departure from his delegation's basic position, on the understanding that it was purely a technical arrangement to facilitate aeronautical operations within the region, and did not involve any other implication.

The Chairman in reply, assured him that the arrangement was a technical one.

1.5 The delegate of the Democratic People's Republic of Korea said that as no agreement had yet been reached between his country and the Chinese People's Republic on Sub-RDARA 6G and 6B/F, his Administration did not recognize the boundary line shown in the document.

1.6 The Chairman of Working Group 5A said that consultations were continuing on the Sub-RDARAs in the latitudes 0° - 20° N. A proposal had been put forward which appeared to satisfy the operational requirements of all Administrations in the area concerned, and it was hoped that a positive report would shortly be possible.

Document No. DT/54 was considered approved and was to be included within the limits of RDARA 6 and its corresponding Sub-RDARAs.

2. Report by Working Group 5B (Document No. 224)

2.1 The Chairman recalled that the Committee at its previous meeting had asked the Working Group to consider possible additions to Recommendation No. D prepared by Committee 6, and additional provisions concerning the 22 MHz band.

2.2 The Chairman of Working Group 5B said that as the Working Group had been unable to meet, he had nothing to report; since the matters involved were relatively minor, it might be possible to make certain insertions in the document and submit them to the Committee.

It was agreed that the Chairman, Vice-Chairman and the Chairman of Working Group 5B should draft the necessary insertions and submit them to the Committee.

3. Report of Working Group 5C (Document No. 234(Rev.1))

3.1 The Chairman recalled that it had been decided to modify the sharing criteria for the 13, 18 and 22 MHz bands and that the Plenary had endorsed the Committee's operational proposals, with the agreement of the Chairman of Committee 4. The text of 27/31B, already adopted, contained provisions referred to in the document.

3.2 The Chairman of Working Group 5C, introducing the document, said that it had been fully revised on the basis of comments by delegations, and was the final version that would be used for the Plan. The work of Working Group 5C as defined in Document No. DT/31 was thus complete.

3.3 The Chairman, in reply to a question by the delegate of Switzerland, confirmed that the document was the basis of the second draft Plan and that his proposals concerning the 10 per cent cut had been taken into account.

Document No. 234(Rev.1) was approved.

4. Consideration of the second draft Plan (Document Nos. DT/52, DT/55).

4.1 The Secretary drew attention to a number of typographical errors in Annex 3 to Document No. DT/52; those errors, however, were only in the document and the results in Annex 2 reflected the requirements correctly as they appeared in Document Nos. 164(Rev.3), 185(Rev.1) and 207(Rev.2).

Referring to Table 1 in Document No. DT/55, he said that in all cases the total number of requirements for each frequency band had been taken into account. A significant point in that table was the improvement in the sharing factor from 2.62 to 2.99; as far as sharing factors within available channels were concerned, the figure of 3.46 in the first draft Plan had improved to 3.48 in the second, indicating some kind of limit achieved with the sites of aeronautical areas, as defined by the Conference. Table 2 indicated the distribution of frequency requirements by RDARAs, which was a summary of Document No. 207(Rev.2). On the instructions of the Chairman, an analysis had subsequently been made of the possibility of accommodating the number of channels determined in Document No. DT/45(Rev.1) for world-wide allotments in the revised Plan in Appendix 27.

The analysis in Table 3 had been started on the basis of the total number of available channels in bands between 2 850 kHz and 17 970 kHz (411 channels). The 9 channels in the 5.4 MHz (Region 2) band needed to be ignored as they were not available on a world-wide basis, leaving 402 channels exclusively available to the Aeronautical Mobile (R) Service world-wide. The number of channels indicated in Document No. DT/45(Rev.1) for frequency bands up to 18 MHz were the equivalent of 16 per cent of the total channels available. The possibility of providing 13 per cent or 10 per cent in the available spectrum had been considered in addition to the 16 per cent. The final analysis showed that if the Conference decided on 16 per cent of the spectrum available for world-wide allotment to meet the requirements of long-distance operational control communications, there was need for a net reduction of 515 requirements from those appearing in Annex 3 to Document No DT/52. If only 10 per cent of the available spectrum was considered, a net reduction of 448 requirements would be necessary. By taking 50/52 channels, the net reduction would need to be 485/6.

4.2 The Chairman added that the distribution of frequency requirements of MWARAs had been summarized from Document No. 164(Rev.3) and of VOLMET areas from Document No. 185(Rev.1).

4.3 The delegate of Italy pointed out that in Annex 3 of Document No. DT/52, under No. 030, Area 1D did not correspond to the requirement in Document No. 207(Rev.2).

4.4 The Secretary said that that would be corrected in the new version. Replying to a question by the delegate of Greece, he said that the figures appearing (unnumbered) between Nos. 031 and 032 were for verification purposes only and did not relate to requirements.

4.5 The delegates of Angola, Brazil, Canada, Ireland, Kenya and Uruguay requested changes in the requirements in the next draft Plan.

4.6 The delegate of China said that his delegation would make every effort to reduce its requirements and thus help achieve a reasonable Plan.

4.7 The delegate of India, referring to Document Nos. DT/42 and DT/52, drew attention to Table 2 of the former where column 3 showed the total number of frequency requirements in available channels, and column 4 showed the percentage of total frequency requirements in available channels. A comparison of the total requirements band-wise, as reflected in the two documents, showed that the figures in DT/42 had dropped considerably, which must mean that the requirements shown in DT/52 were expressed as a percentage of those shown in DT/42. If those percentages were equal to or lower than the values shown in column 4 of Table 2 (DT/42), then the current requirements could be met. If that interpretation was correct, the requirements shown in DT/42 could be met fully in the 3, 5.6, 6.6 and 9 MHz bands, and almost fully met in the 3.5 and 10 MHz bands.

The Chairman replied that that conclusion could not be drawn from the figures in DT/55, and many more reductions would have to be made.

4.8 The delegate of Norway said that the problem would not be solved by the mere shifting of channels, and that a definite reduction would have to be made.

4.9 The Chairman concurred in that view. If requirements for high density areas were not reduced somehow, a reduction would have to be imposed by the Arbitration Group and decided finally by the Plenary. Delegates should consider all ways of reducing their requirements, by coordination, daytime use, limitation of power, etc., bearing in mind, however, that there should be no reduction in the quality of service.

4.10 Document No. DT/55

The Chairman drew attention to the reductions needed in frequency requirements to ensure the preparation of an acceptable Plan. All draft Plans would be reviewed the following day by the representative of the IFRB and himself and a new text submitted subsequently.

The Committee took note of Documents Nos. DT/52 and DT/55.

5. World-wide allotment areas and associated frequency requirements
(Document No. 252)

5.1 The delegate of Japan introduced the proposal contained in Document No. 252 to provide for frequency allotments to be made on an area basis ensuring world-wide reception. It had been worked out in cooperation with a number of other delegations.

5.2 The Chairman of Sub-Working Group 5B1 asked if the figures contained in the table on page 2 were intended to replace those contained in Document No. DT/45(Rev.1), section C.

5.3 The delegate of the United States of America replied that they were. He had taken part in the discussions which had led to submission of the proposal and suggested that delegates might find it easier to understand if they examined it in relation to Document Nos. 44, 48, DT/45(Rev.1) and 165. The subject was a controversial one and the proposal represented a compromise solution which could not be claimed to be perfect. It was based on the idea that without an allotment plan it would be impossible to control the use of frequencies and the position might well be chaotic in a very short space of time. The areas suggested differed very little from those contained in the map in Document No. 165. It was hoped that the allotment plan would be included in Appendix 27. In that case latitude and longitude limits would be included in it. The proposal reflected a series of compromises reached in a true spirit of international cooperation and, he believed, represented the best possible solution to a very complex problem.

5.4 The Chairman of Sub-Working Group 5B1 said that, if his preliminary calculations were correct, and the assumptions on which the Sub-Group had worked still valid, adoption of the proposal would result in average channel occupancy of over 80 per cent. That seemed rather high.

5.5 The Chairman of Working Group 5B noted that the number of frequencies involved would be reduced from the 63 suggested in Document No. DT/45(Rev.1) to 60. The suggested approach had much to commend it and should be operational.

5.6 The delegate of Finland asked if any formal sharing arrangements were envisaged and if the details contained in Document No. 45(Rev.1), section 7, had been taken into account.

5.7 The delegate of the United States of America said that repeatability had been envisaged in Document No. DT/45(Rev.1) but that with the reduced number of areas proposed by Japan it was impossible to provide for repeatability. The proposal did involve a reduction in the number of channels available and a consequent increase in circuit loading.

5.8 The delegate of Sweden believed that the use of 60 instead of 63 frequencies might be a disadvantage. The reduction in the number of channels for Frequency Group I from 12 in Document No. DT/45(Rev.1) to 6 in Document No. 252 appeared rather drastic. Sub-Working Group 5B1 had reckoned that transmission time should be 2,845 minutes a day. On the basis of the proposed 6 channels, it would amount to 47.4 minutes an hour, or an average of 79 per cent occupancy, without taking into account peak hours or minimum transmission hours. He could support the main ideas of the Japanese proposal, but suggested that the areas be brought closer into line with those contained in Document No. DT/45(Rev.1) and the 63 channels retained.

5.9 The delegate of the United States of America understood the justification of the previous speaker's argument. There were advantages and disadvantages to the Japanese proposal which, it must be borne in mind, was the result of considerable compromise. The main advantage of the Japanese proposal from the operational point of view was that aircraft would be protected all over the world beyond the confines of RDARAs and MWARAs and would not come up against interference from ground stations.

5.10 The representative of the United Kingdom believed that the table might usefully be modified to some extent but otherwise supported the approach adopted in the Japanese proposal.

5.11 The delegates of Italy and the Union of Soviet Socialist Republics supported the Japanese proposal.

5.12 The delegate of Switzerland could not support it at the present stage. The creation of large areas would not overcome the basic difficulties. It was not yet known how the use of frequencies would develop and he would prefer to maintain the smaller areas and make adjustments at a later stage in the light of experience gained.

5.13 The delegate of Sweden understood that according to the Japanese proposal each area would be allotted some frequencies in each band and that there would be no interference from aircraft over one area communicating with aeronautical stations located in other areas. The proposal contained in Document No. DT/45(Rev.1) carried some risk of such interference but the probability that an aircraft flying over one area would communicate with a station in another area was fairly low. The latter proposal called for only 3 more frequencies and would result in 40 per cent channel occupancy as opposed to 80 per cent - 90 per cent channel occupancy resulting from the Japanese proposal which also advocated a considerable reduction in the number of channels available. It would appear preferable to provide for radio operators to have access to more channels and to keep channel occupancy down as far as possible. In one case lack of channels might lead to blocking and in the other interference from visiting aircraft lead to blocking.

5.14 The representative of the IFRB said that as far as the computer program was concerned the channels required for world-wide use according to the Japanese proposal would simply be set aside for that purpose and not entered in the computer program. For example, 20 of the 121 channels available in the 9, 10 and 11.3 MHz band would be set aside for world-wide use and the remaining 101 used to meet MWARA, VOLMET and RDARA needs.

5.15 The delegate of Australia supported the approach adopted by Japan. Recalling that the problem involved was essentially an operational one, he suggested that IATA might be invited to comment on the Japanese proposal.

5.16 The representative of IATA said he would have preferred the Committee to retain Document No. DT/45(Rev.1), but would accept the Japanese proposal in a spirit of compromise.

5.17 The delegates of Switzerland, Finland and Norway expressed reservations concerning the implications of the Japanese proposal on channel occupancy and the effective use of frequencies but did not oppose the proposal.

The Committee approved Document No. 252 as a first approach to the planning of "world-wide" allotments.

The meeting rose at 1730 hrs.

Secretary :

M. SANT

Chairman :

M. CHEF

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 342-E

4 March 1978

Original : English

PLENARY MEETING

RECOMMENDATION Aer2 -

Relating to 27/123 of Appendix 27 - Aer2 - Sub-Area 5B

The World Administrative Radio Conference on the Aeronautical Mobile (R) Service, Geneva, 1978,

considering

- a) the discussions which took place on the proposed modification of 27/123 of Appendix 27 - Aer2;
- b) the interested Administrations have agreed to continue consultations between themselves on the matter of Sub-Area 5B;

recommends

- 1. that consultations should be carried out by the interested Administrations in order to arrive at a satisfactory solution;
- 2. that the Administrations concerned would report on the results of their consultation to the World Administrative Radio Conference, 1979, in order to enable that Conference to arrive at a definitive solution on 27/123. .



INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 343-E

3 March 1978

Original : English

PLENARY MEETING

FINAL PROTOCOL

For the Kingdom of Saudi Arabia :

The Delegation of the Kingdom of Saudi Arabia reserves the right of its Government to authorize or prohibit the operation of HF communication stations by aircraft as in ADD 27/8A (and associated Note) of Appendix 27-Aer2 while on ground in Saudi Arabian territory.



AERONAUTICAL (R) CONFERENCE**(Geneva, 1978)**

Document No. 344 -E

4 March 1978

Original : EnglishSEANCE PLENIERE
COMMITTEE 7

Committee 5 at its 8th meeting has adopted the following:

WORLD-WIDE ALLOTMENT AREAS

A. For inclusion in MOD.27/189 :

Bands MHz											22
Areas											
WW I											21940 21946 21952 21958 21967 21973 21979 21988 21997
WW II											21964 21985
WW III											21949 21970
WW IV											21955 21976 21991
WW V											21943 21961 21982 21994



B. For inclusion in MOD 27/195-207 and ADD 27/207A:

Frequency	Authorized area of use	Remarks
1	2	3
21940	World-wide	Allotted for assignments in WW I, in accordance with 27/194A
21943	"	WW V
21946	"	WW I
21949	"	WW III
21952	"	WW I
21955	"	WW IV
21958	"	WW I
21961	"	WW V
21964	"	WW II
21967	"	WW I
21970	"	WW III
21973	"	WW I
21976	"	WW IV
21977	"	WW I
21982	"	WW V
21985	"	WW II
21988	"	WW I
21991	"	WW IV
21994	"	WW V
21997	"	WW I
	" " " " "	
	" " " " "	
	" " " " "	

Plan d'allotissement de fréquences pour le service mobile aéronautique (R)

Genève, 1978

(approuvé en deuxième lecture)

Frequency Allotment Plan for the Aeronautical Mobile (R) Service

Geneva, 1978

(approved in second reading)

Plan de adjudicación de frecuencias del servicio móvil aeronáutico (R)

Ginebra, 1978

(aprobado en segunda lectura)



Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)										
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
AFI	2851 2878	3419 3425 3467	4657		5493 5652 5658	6559 6574 6673	8894 8903		11 300 11 330	13 273 13 288 13 294	17 961
CAR	2887	3455			5520 5550	6577 6586	8846 8918		11 387 11 396	13 297	17 907
CEP	2869	3413	4657		5547 5574	6673	8843	10057	11 282	13 300	17 904
CWP	2998	3455	4666		5652 5661	6532 6562	8903	10081	11 384	13 300	17 904
EA	3016	3485 3491			5655 5670	6571	8897	10042	11 396	13 297 13 303 13 309	17 907
EUR		3479			5661	6598		10084		13 288	17 961
INO		3476			5634		8879			13 306	17 961
MID	2944 2992	3467 3473	4669		5658 5667	6625 6631	8918 8951	10018	11 375	13 288 13 312	17 961
NAT	2872 2899 2962 2971 3016	3476	4675		5598 5616 5649	6622 6628	8825 8831 8864 8879 8891 8906		11 279 11 309 11 336	13 291 13 306	17 946
NCA	3004 3019		4678		5646 5664	6592		10096		13 303 13 315	17 958
NP	2932				5628	6655 6661		10048	11 330	13 300	17 904
SAM	2944	3479	4669		5526	6649	8855	10024 10096	11 360	13 297	17 907
SAT	2854 2935	3452			5565	6535	8861		11 291	13 315 13 357	17 955
SEA		3470 3485			5649 5655	6556	8942	10066	11 396	13 309 13 318	17 907
SP		3467			5559 5643		8867	10084	11 327	13 300	17 904
1						6556		10021	11 363		
1B	2860* 2881* 2890	3458* 3473* 3488*			5484 5568	6550 6595		10066			
1C	2977 2983	3464 3470	4666		5577 5595	6544	8840		11 366		
1D	2974 2980 2989	3410 3416 3446	4651		5622 5628 5637	6604 6610	8828	10060	11 384		
1E	2965	3491			5583	6667		10036			
2	2938 2950		4696		5556	6583 6601	8846 8855 8888	10015 10045	11 297 11 360 11 390	13 321 13 357	17 964

* Voir/See/Véase NOC 27/187

	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
2A	2851* 2863 2869 2875 2881 2887* 2896 2917 2926 2932 2941	3416* 3422 3434 3440 3455	4657* 4672 4690		5481 5490 5496 5502 5523 5547 5559 5604	6526 6532 6547 6553 6559 6565 6574 6673	8822* 8876 8909 8939	10048 10054	11276 11285 11294		
2B	2857 2869 2875 2881 2887* 2896 2902 2908 2914 2920 2929	3401 3407 3416* 3422 3428 3449	4660 4672 4681 4690 4693		5490 5496 5502 5508 5520 5526 5550 5574 5595 5607 5613 5619	6526 6532 6562 6568 6577 6655 6661 6667	8819 8834 8864	10009 10024	11279 11333 11339		
2C	2857 2863 2866 2884 2893 2902 2908 2914 2920 2926 2932	3401 3407 3428 3434 3440 3449 3455	4657* 4660 4681 4693		5481 5487 5508 5514 5520 5526 5550 5562 5574 5586 5604	6535 6541 6547 6553 6562 6568 6577 6586	8819 8834 8882 8939	10009 10024 10054	11276 11333 11372		
3	2893 2935		4693		5556	6583 6589	8846 8954	10087	11318 11336 11360	13267 13321	17952
3A	2854 2860 2869 2875 2881 2887* 2896 2905 2911* 2923* 2959	3404 3416* 3422 3431* 3443 3452	4672 4684 4690		5484 5490 5496 5502 5511 5517 5568 5580 5601 5625	6526 6532 6538 6544 6550 6556 6607 6613 6619 6649	8837 8861 8900 8942	10045 10057	11309 11324 11330		
3B	2851 2854 2872 2878 2884* 2902 2908 2914 2968*	3401 3407 3413 3419 3425 3431* 3437* 3443	4657 4681		5493 5499 5505 5514 5520 5526 5550 5562 5580 5601	6529 6538 6544 6559 6568 6577 6595 6625 6631	8822 8852 8861 8879 8957	10024 10039	11285 11291 11327 11372		
3C	2851 2860 2866* 2878 2905 2950 2974 2980 2986	3404 3410 3419 3425 3452	4684		5484 5514 5562 5568 5586 5637 5643	6550 6556 6595 6658 6664 6670	8837 8852 8894 8915	10039	11291 11303 11324 11378		

	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
4						6 565	8 873			13 300	17 904
4A	2926* 2953	3437 3491	4 672*		5 547 5 559	6 526 6 532 6 616	8 816 8 837 8 858	10 039 10 081	11 282 11 318		
4B	2 866 2 893	3 443			5 481 5 574 5 604	6 553 6 577 6 598		10 063	11 324		
5							8 870 8 885	10 012	11 312 11 327	13 354	17 949 17 967
5A	2 986	3 452			5 577 5 583	6 544 6 664	8 822 8 915		11 288		
5B	2 911 2 968	3 431 3 488			5 511 5 568 5 625	6 550 6 595	8 912	10 093			
5C	2 905	3 452			5 583	6 544	8 822				
5D	2 899 2 971	3 482			5 526 5 550	6 535 6 547	8 843	10 048			
6							8 840		11 381	13 291	17 943
6A	2 872 2 923 2 947 3 001	3 479	4 657* 4 675		5 484 5 580 5 601	6 607 6 613 6 658	8 891 8 906 8 948	10 006 10 051 10 081*	11 321 11 357		
6B	2 857 2 920	3 479 3 488			5 502 5 595 5 625	6 607 6 613 6 619	8 864 8 885	10 021 10 093	11 339 11 366		17 955
6C	2 881 2 956	3 473	4 651		5 550 5 580	6 544 6 631	8 834 8 918	10 015			
6D	2 866 2 884	3 416			5 490 5 520 5 568 5 574 5 631	6 550 6 568 6 577 6 595	8 882 8 957		11 309 11 372		
6E	2 854 2 872 2 917 3 001	3 443	4 657* 4 675		5 514 5 526 5 550	6 583 6 655 6 661	8 861* 8 906 8 909	10 036 10 051 10 084	11 357 11 363		
6F	2 926 2 941	3 434 3 440			5 496 5 508	6 526 6 667	8 864 8 939	10 060	11 279 11 366		
6G	2 869* 2 875* 2 890 2 896* 2 899 2 902* 2 911* 2 917* 2 938* 2 953 2 962 2 968* 2 971 2 977 2 983 2 989 2 995	3 413* 3 422* 3 431* 3 437 3 446 3 449* 3 464 3 482	4 651* 4 663* 4 669* 4 672* 4 690* 4 696*		5 481 5 487 5 493* 5 499* 5 505* 5 511* 5 517* 5 523 5 547 5 553 5 559 5 565 5 571 5 577 5 583 5 592 5 598 5 604	6 529 6 535 6 541 6 547 6 553 6 559 6 565 6 574 6 580 6 586 6 598 6 604 6 610 6 616 6 622 6 628 6 634 6 649	8 816 8 825 8 831 8 843 8 858 8 867 8 870* 8 873 8 888* 8 912* 8 960	10 018* 10 054* 10 063*	11 276* 11 282* 11 288 11 294* 11 300* 11 306 11 315 11 369	13 270 13 276	17 913

	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
					5610 5616 5622 5628* 5634* 5640*	6652 6673 6682					
7					5508	6586	8888		11285	13354	
7B	2863 2965	3455			5577 5583	6652	8906	10009			
7C	2950	3407			5592	6568 6604	8834	10081	11294		
7D	2998				5481			10096			
7E	2887	3485			5520	6580 6628	8864		11306		
7F	2956	3461			5547 5568	6622	8846 8960				
9			4696		5583	6553	8846 8852	10018	11339		
9B	2860 2905 2929*	3401* 3419 3425 3476*	4660		5484 5508 5523 5565	6538 6547 6598 6622	8819 8837 8861 8906	10009 10024 10039	11393		
9C	2851	3404 3461	4675		5481	6580	8873	10042	11279 11312		
9D	3016	3404			5592	6535	8873		11312		
10			4696	5454	5604	6553	8819 8834	10006 10012	11333 11390	13285	17910
10A	2866 2875 2911 2944 2956 2992	3449 3470		5472 5475	5484 5490 5496 5565 5631	6535 6580 6604	8855 8876	10066	11357 11363 11375		
10B	2854 2860	3404 3467 3488	4651 4666 4681 4690 4693	5460 5466	5553 5568 5583	6547 6574 6598	8837 8903 8939				
10C	2926 2965	3491	4660 4669	5457	5481 5487 5502 5562 5595	6541 6556 6568	8867				
10D	2893 2935	3419 3425 3458	4666 4669 4678	5472 5475	5484 5490 5496 5586 5625	6535 6544 6562	8858 8900				
10E	2869 2944 2992	3446 3473	4651 4666 4684	5460	5481 5559 5577	6547 6598	8843 8954		11276		
10F	2950		4663	5451	5526	6673	8945	10042			

	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
11B	2851 2878 3004 3019	3410 3428 3434 3443	4672	5451 5463 5469	5508 5514 5523 5571	6538 6550 6559 6565	8822 8885 8912	10045 10093	11288 11306	13312	17964
12		3440			5568			10054			17901
12A	2950				5604						
12C	2920 2980	3401 3464	4693	5460	5484 5490 5496 5502 5589 5613	6535 6571 6592 6622 6628	8816 8948 8957	10021 10039	11324		
12D		3407			5562	6673	8876	10015			
12E	2860 2956 2998	3461 3488	4681	5454 5475	5481 5487 5583 5595 5604	6547 6553 6598	8852 8873	10063 10090	11381 11393		
12F	2893 2956 2965 2998	3461 3488		5451 5475	5508 5556 5583 5604	6532 6553	8873 8894	10090	11297		
12G	2875 2956 2998	3461 3488			5484 5523 5559 5646	6526 6616					
12H	2956 2998	3461 3488		5451	5583						
12J	2860 2902 2926 2965	3419			5481 5496 5619	6535 6547	8954		11381 11384		
13										13318	17913
13A								10048			17967
13B								10048			17967
13C	2863 2869 2992	3413 3458 3473			5490 5514 5553 5571 5577	6541 6556 6562 6568 6580	8819 8834 8843 8939	10042	11327 11375	13309	
13D	2914 2983	3425 3467	4660	5460	5562	6622 6628 6673	8867 8912 8957	10084	11318		
13E	2851	3491	4651 4663		5481 5583 5604	6553 6577	8858		11303		17967
13F	2851 2956 2998	3446 3476	4651 4663	5454	5481 5583 5604	6547 6553	8831 8858 8864	10081	11321 11330		17967
13G	2872 2971 3016	3434 3470	4675*	5469 5475	5574	6586 6613	8822 8885 8900	10006 10021 10036	11369		

	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
13H	2899 2965	3455 3485	4657	5463 5472	5484 5547	6598	8825 8906	10036 10045	11282 11300	13267	
13I	2860 2878 2887	3419	4678 4693	5451 5466	5496 5523	6574	8873	10051			
13J	2857 2863 2878 2890 2920	3410 3428 3458	4684 4696	5451 5454	5559 5568 5577	6550 6559 6580	8816 8843	10012 10018 10042	11276		
13K	2863 2932 3004 3019	3401 3458 3464	4663 4672	5463	5481 5547 5577 5604	6547 6553 6580	8843 8849 8945	10009 10018 10042 10060	11339 11366	13309	
13M	2908 2977	3437 3449	4660 4690	5463	5502	6574 6628	8837 8867 8903	10066	11378		
13N	2986	3443		5457	5508	6604	8828	10093			
14	2851 2878	3446 3461 3479			5526 5604	6580 6628	8822 8855 8870	10045 10087	11360	13264	17946
14A	2950	3413	4678*			6547 6553	8816 8894				
14B		3488	4684*			6535 6604 6673	8900 8954				
14C	2887	3452	4684*			6541 6586	8885 8912				
14D	2950	3407	4693*		5481	6559 6574	8843 8858				
14E		3413				6565 6616	8891 8945				
14F		3488				6526 6610	8825 8831				
14G	2869 2944		4678*		5481 5550 5580		8876 8957				
VAFI	2860	3404			5499	6538	8852	10057		13261	
VCAR	2950				5580				11315		
VEUR	2998	3413			5640	6580	8957		11378	13264	
VMID	2956				5589		8945		11393		
VNAT	2905	3485			5592	6604	8870	10051		13270 13276	
VNCA		3461	4663		5676			10090		13279	
VPAC	2863					6679	8828			13282	
VSAM	2881				5601			10087		13279	
VSEA	2965	3458			5673	6676	8849		11387	13285	

	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
W I	3 010		4 654 4 687		5 529 5 532 5 535 5 541	6 637 6 643	8 921 8 924 8 930 8 936	10 027 10 030 10 069 10 072 10 078	11 345 11 351	13 324 13 327 13 333 13 336 13 342 13 345 13 351	17 916 17 922 17 931
W II	3 007 3 013	3 494 3 497	4 654 4 687		5 529 5 538 5 544	6 637 6 640 6 646	8 927 8 933 8 936	10 027 10 033 10 075	11 342 11 348 11 354	13 330 13 339 13 348	17 919 17 925 17 934 17 940
W III	3 007		4 687			6 637	8 921 8 930	10 072 10 078	11 342 11 351	13 324 13 333 13 342 13 351	17 916 17 922 17 928 17 934 17 940
W IV	3 010				5 535 5 541	6 643	8 924	10 030 10 069	11 345	13 327 13 336 13 345	17 919 17 928 17 937
W V	3 013				5 532 5 538 5 544	6 640 6 646	8 927 8 933	10 033 10 075	11 348 11 354	13 330 13 339 13 348	17 925 17 931 17 937

Fréquence kHz Frequency kHz Frecuencia kHz	Zone d'emploi autorisé ** Authorized area of use ** Zona de uso autorizado **										Observations ** Remarks ** Observaciones **
2851	M R	AFI 2A	3B	3C	9C	11B	13E	13F	14		CC 3B 3C CC 13E 13F C001/2A
2854	M R	SAT 3A	3B	6E	10B						CC 3A 3B
2857	R	2B	2C	6B	13J						CC 2B 2C
2860	R V	1B 3A VAFI	3C	9B	10B	12E	12J	13I			CC 3A 3C CC 12E 12J C001/1B
2863	R V	2A 2C VPAC	7B	13C	13J	13K					CC 2A 2C CC 13C 13J 13K
2866	R	2C	3C	4B	6D	10A					C001/3C
2869	M R	CEP 2A	2B	3A	6G	10E	13C	14G			CC 2A 2B 3A C009/6G
2872	M R	NAT 3B	6A	6E	13G						CC 6A 6E
2875	R	2A	2B	3A	6G	10A	12G				CC 2A 2B 3A C009/6G
2878	M R	AFI 3B	3C	11B	13I	13J	14				CC 3B 3C CC 13I 13J
2881	R V	1B 2A VSAM	2B	3A	6C						CC 2A 2B 3A C001/1B
2884	R	2C	3B	6D							C001/3B
2887	M R	CAR 2A	2B	3A	7E	13I	14C				CC 2A 2B 3A C001/2A 2B 3A
2890	R	1B	6G	13J							
2893	R	2C	3	4B	10D	12F					CC 2C 3
2896	R	2A	2B	3A	6G						CC 2A 2B 3A C009/6G
2899	M R	NAT 5D	6G	13H							
2902	R	2B	2C	3B	6G	12J					CC 2B 2C 3B C009/6G
2905	R V	3A 3C VNAT	5C	9B							CC 3A 3C
2908	R	2B	2C	3B	13M						CC 2B 2C 3B
2911	R	3A	5B	6G	10A						C001/3A C010/6G
2914	R	2B	2C	3B	13D						CC 2B 2C 3B
2917	R	2A	6E	6G							C010/6G
2920	R	2B	2C	6B	12C	13J					CC 2B 2C

** Voir page 26/See page 26/Véase página 26.

bande/band/banda 2850-3025 kHz **3 MHz**

(continued)

1	2	3
2923	R 3A 6A	C001/3A
2926	R 2A 2C 4A 6F 10C 12J	CC 2A 2C C001/4A
2929	R 2B 9B	C001/9B
2932	M NP R 2A 2C 13K	CC 2A 2C
2935	M SAT R 3 10D	
2938	R 2 6G	C009/6G
2941	R 2A 6F	
2944	M MID SAM R 10A 10E 14G	
2947	R 6A	
2950	R 2 3C 7C 10F 12A 14A 14D V VCAR	CC 2 3C CC 14A 14D
2953	R 4A 6G	
2956	R 6C 7F 10A 12E 12F 12G 12H 13F V VMID	CC 12E 12F 12G 12H
2959	R 3A	
2962	M NAT R 6G	
2965	R 1E 7B 10C 12F 12J 13H V VSEA	CC 12F 12J
2968	R 3B 5B 6G	C001/3B C009/6G
2971	M NAT R 5D 6G 13G	
2974	R 1D 3C	
2977	R 1C 6G 13M	
2980	R 1D 3C 12C	
2983	R 1C 6G 13D	
2986	R 3C 5A 13N	
2989	R 1D 6G	
2992	M MID R 10A 10E 13C	
2995	R 6G	
2998	M CWP R 7D 12E 12F 12G 12H 13F V VEUR	CC 12E 12F 12G 12H
3001	R 6A 6E	CC 6A 6E

bande/*band*/banda 2850-3025 kHz **3 MHz**
(concluded)

1	2	3
3004	M NCA R 11B 13K	
3007	W MONDIALE WORLDWIDE MUNDIAL	C100/II III
3010	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
3013	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
3016	M EA NAT R 9D 13G	
3019	M NCA R 11B 13K	

MOD 27/197
Aer 2

bande/*band*/banda 3400-3500 kHz **3.5 MHz**

1	2	3
3401	R 2B 2C 3B 9B 12C 13K	CC 2B 2C 3B C001/9B
3404	R 3A 3C 9C 9D 10B V VAFI	CC 3A 3C CC 9C 9D
3407	R 2B 2C 3B 7C 12D 14D	CC 2B 2C 3B
3410	R 1D 3C 11B 13J	
3413	M CEP R 3B 6G 13C 14A 14E V VEUR	CC 14A 14E C009/6G
3416	R 1D 2A 2B 3A 6D	CC 2A 2B 3A C001/2A 2B 3A
3419	M AFI R 3B 3C 9B 10D 12J 13I	CC 3B 3C
3422	R 2A 2B 3A 6G	CC 2A 2B 3A C001/6G C004/6G
3425	M AFI R 3B 3C 9B 10D 13D	CC 3B 3C
3428	R 2B 2C 11B 13J	CC 2B 2C
3431	R 3A 3B 5B 6G	CC 3A 3B C001/3A 3B C009/6G
3434	R 2A 2C 6F 11B 13G	CC 2A 2C
3437	R 3B 4A 6G 13M	C001/3B
3440	R 2A 2C 6F 12	CC 2A 2C
3443	R 3A 3B 4B 6E 11B 13N	CC 3A 3B

bande/band/banda 3400-3500 kHz 3.5 MHz
(concluded)

1	2	3
3446	R 1D 6G 10E 13F 14	
3449	R 2B 2C 6G 10A 13M	CC 2B 2C C001/6G C004/6G
3452	M SAT R 3A 3C 5A 5C 14C	CC 3A 3C CC 5A 5C
3455	M CAR CWP R 2A 2C 7B 13H	CC 2A 2C
3458	R 1B 10D 13C 13J 13K V VSEA	CC 13C 13J 13K C001/1B
3461	R 7F 9C 12E 12F 12G 12H 14 V VNCA	CC 12E 12F 12G 12H
3464	R 1C 6G 12C 13K	
3467	M AFI MID SP R 10B 13D	CC AFI MID
3470	M SEA R 1C 10A 13G	
3473	M MID R 1B 6C 10E 13C	C001/1B
3476	M INO NAT R 9B 13F	C001/9B
3479	M EUR SAM R 6A 6B 14	
3482	R 5D 6G	
3485	M EA SEA R 7E 13H V VNAT	CC EA SEA
3488	R 1B 5B 6B 10B 12E 12F 12G 12H 14B 14F	CC 12E 12F 12G 12H CC 14B 14F C001/1B
3491	M EA R 1E 4A 10C 13E	CC 1E 4A
3494	W MONDIALE WORLDWIDE MUNDIAL	C100/II
3497	W MONDIALE WORLDWIDE MUNDIAL	C100/II

MOD 27/198
Aer 2

bande/*band*/banda 4650-4700 kHz **4.7 MHz**

1	2	3
4651	R 1D 6C 6G 10B 10E 13E 13F	CC 13E 13F C001/6G
4654	W MONDIALE WORLDWIDE MUNDIAL	C100/I II
4657	M AFI CEP R 2A 2C 3B 6A 6E 13H	CC 2A 2C C001/2A 2C CC 6A 6E C001/6A 6E
4660	R 2B 2C 9B 10C 13D 13M	CC 2B 2C CC 13D 13M
4663	R 6G 10F 13E 13F 13K V VNCA	CC 13E 13F 13K C001/6G
4666	M CWP R 1C 10B 10D 10E	CC 10B 10D 10E
4669	M MID SAM R 6G 10C 10D	CC 10C 10D C001/6G
4672	R 2A 2B 3A 4A 6G 11B 13K	CC 2A 2B 3A C001/4A C001/6G
4675	M NAT R 6A 6E 9C 13G	CC 6A 6E C001/13G
4678	M NCA R 10D 13I 14A 14G	CC 14A 14G C001/14A 14G
4681	R 2B 2C 3B 10B 12E	CC 2B 2C 3B
4684	R 3A 3C 10E 13J 14B 14C	CC 3A 3C CC 14B 14C C001/14B 14C
4687	W MONDIALE WORLDWIDE MUNDIAL	C100/I II III
4690	R 2A 2B 3A 6G 10B 13M	CC 2A 2B 3A C001/6G
4693	R 2B 2C 3 10B 12C 13I 14D	CC 2B 2C 3 C001/14D
4696	R 2 6G 9 10 13J	C001/6G

MOD 27/199
Aer 2

bande/band/banda 5450-5480 kHz (Region 2)

5.4 MHz

1	2	3
5451	R 10F 11B 12F 12H 13I 13J	CC 12F 12H CC 13I 13J
5454	R 10 12E 13F 13J	
5457	R 10C 13N	
5460	R 10B 10E 12C 13D	
5463	R 11B 13H 13K 13M	
5466	R 10B 13I	
5469	R 11B 13G	
5472	R 10A 10D 13H	
5475	R 10A 10D 12E 12F 13G	CC 12E 12F

MOD 27/200
Aer 2

bande/band/banda 5480-5680 kHz

5.6 MHz

1	2	3
5481	R 2A 2C 4B 6G 7D 9C 10C 10E 12E 12J 13E 13F 13K 14D 14G	CC 2A 2C CC 10C 10E CC 12E 12J CC 13E 13F CC 14D 14G
5484	R 1B 3A 3C 6A 9B 10A 10D 12C 12G 13H	CC 3A 3C
5487	R 2C 6G 10C 12E	
5490	R 2A 2B 3A 6D 10A 10D 12C 13C	CC 2A 2B 3A
5493	M AFI R 3B 6G	C002/6G
5496	R 2A 2B 3A 6F 10A 10D 12C 12J 13I	CC 2A 2B 3A
5499	R 3B 6G V VAFI	C002/6G
5502	R 2A 2B 3A 6B 10C 12C 13M	CC 2A 2B 3A
5505	R 3B 6G	C003/6G
5508	R 2B 2C 6F 7 9B 11B 12F 13N	CC 2B 2C
5511	R 3A 5B 6G	C002/6G
5514	R 2C 3B 3C 6E 11B 13C	CC 3B 3C
5517	R 3A 6G	C002/6G
5520	M CAR R 2B 2C 3B 6D 7E	CC 2B 2C 3B
5523	R 2A 6G 9B 11B 12G 13I	

1	2	3
5526	M SAM R 2B 2C 3B 5D 6E 10F 14	CC 2B 2C 3B
5529	W MONDIALE WORLDWIDE MUNDIAL	C100/I II
5532	W MONDIALE WORLDWIDE MUNDIAL	C100/I V
5535	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
5538	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
5541	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
5544	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
5547	M CEP R 2A 4A 6G 7F 13H 13K	
5550	M CAR R 2B 2C 3B 5D 6C 6E 14G	CC 2B 2C 3B
5553	R 6G 10B 13C	
5556	R 2 3 12F	CC 2 3
5559	M SP R 2A 4A 6G 10E 12G 13J	
5562	R 2C 3B 3C 10C 12D 13D	CC 3B 3C
5565	M SAT R 6G 9B 10A	
5568	R 1B 3A 3C 5B 6D 7F 10B 12 13J	CC 3A 3C
5571	R 6G 11B 13C	
5574	M CEP R 2B 2C 4B 6D 13G	CC 2B 2C
5577	R 1C 5A 6G 7B 10E 13C 13J 13K	CC 13C 13J 13K
5580	R 3A 3B 6A 6C 14G V VCAR	CC 3A 3B
5583	R 1E 5A 5C 6G 7B 9 10B 12E 12F 12H 13E 13F	CC 5A 5C CC 12E 12F 12H CC 13E 13F
5586	R 2C 3C 10D	
5589	R 12C V VMID	
5592	R 6G 7C 9D V VNAT	
5595	R 1C 2B 6B 10C 12E	
5598	M NAT R 6G	
5601	R 3A 3B 6A V VSAM	CC 3A 3B
5604	R 2A 2C 4B 6G 10 12A 12E 12F 13E 13F 13K 14	CC 2A 2C CC 12E 12F CC 13E 13F

bande/*band*/banda 5480-5680 kHz 5.6 MHz
(concluded)

1	2	3
5607	R 2B	
5610	R 6G	
5613	R 2B 12C	
5616	M NAT R 6G	
5619	R 2B 12J	
5622	R 1D 6G	
5625	R 3A 5B 6B 10D	
5628	M NP R 1D 6G	C003/6G
5631	R 6D 10A	
5634	M INO R 6G	C002/6G
5637	R 1D 3C	
5640	R 6G V VEUR	C002/6G
5643	M SP R 3C	
5646	M NCA R 12G	
5649	M NAT SEA	
5652	M AFI CWP	
5655	M EA SEA	CC EA SEA
5658	M AFI MID	CC AFI MID
5661	M CWP EUR	
5664	M NCA	
5667	M MID	
5670	M EA	
5673	V VSEA	
5676	V VNCA	

MOD 27/202
Aer 2

bande/band/banda 6525-6685 kHz **6.6 MHz**

1	2	3
6526	R 2A 2B 3A 4A 6F 12G 14F	CC 2A 2B 3A
6529	R 3B 6G	
6532	M CWP R 2A 2B 3A 4A 12F	CC 2A 2B 3A
6535	M SAT R 2C 5D 6G 9D 10A 10D 12C 12J 14B	
6538	R 3A 3B 9B 11B V VAFI	CC 3A 3B
6541	R 2C 6G 10C 13C 14C	
6544	R 1C 3A 3B 5A 5C 6C 10D	CC 3A 3B CC 5A 5C
6547	R 2A 2C 5D 6G 9B 10B 10E 12E 12J 13F 13K 14A	CC 2A 2C CC 12E 12J
6550	R 1B 3A 3C 5B 6D 11B 13J	CC 3A 3C
6553	R 2A 2C 4B 6G 9 10 12E 12F 13E 13F 13K 14A	CC 2A 2C CC 12E 12F CC 13E 13F
6556	M SEA R 1 3A 3C 10C 13C	CC 3A 3C
6559	M AFI R 2A 3B 6G 11B 13J 14D	
6562	M CWP R 2B 2C 10D 13C	CC 2B 2C
6565	R 2A 4 6G 11B 14E	
6568	R 2B 2C 3B 6D 7C 10C 13C	CC 2B 2C 3B
6571	M EA R 12C	
6574	M AFI R 2A 6G 10B 13I 13M 14D	
6577	M CAR R 2B 2C 3B 4B 6D 13E	CC 2B 2C 3B
6580	R 6G 7E 9C 10A 13C 13J 13K 14 V VEUR	CC 13C 13J 13K
6583	R 2 3 6E	CC 2 3
6586	M CAR R 2C 6G 7 13G 14C	
6589	R 3	
6592	M NCA R 12C	
6595	R 1B 3B 3C 5B 6D	CC 3B 3C
6598	M EUR R 4B 6G 9B 10B 10E 12E 13H	

1	2	3
6601	R 2	
6604	R 1D 6G 7C 10A 13N 14B V VNAT	
6607	R 3A 6A 6B	
6610	R 1D 6G 14F	
6613	R 3A 6A 6B 13G	
6616	R 4A 6G 12G 14E	
6619	R 3A 6B	
6622	M NAT R 6G 7F 9B 12C 13D	
6625	M MID R 3B	
6628	M NAT R 6G 7E 12C 13D 13M 14	CC 13D 13M
6631	M MID R 3B 6C	
6634	R 6G	
6637	W MONDIALE WORLDWIDE MUNDIAL	C100/I II III
6640	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
6643	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
6646	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
6649	M SAM R 3A 6G	
6652	R 6G 7B	
6655	M NP R 2B 6E	
6658	R 3C 6A	
6661	M NP R 2B 6E	
6664	R 3C 5A	
6667	R 1E 2B 6F	
6670	R 3C	
6673	M AFI CEP R 2A 6G 10F 12D 13D 14B	
6676	V VSEA	
6679	V VPAC	
6682	R 6G	

MOD 27/203
Aer 2

bande/*band*/banda 8815-8965 kHz **9 MHz**

1	2	3
8816	R 4A 6G 12C 13J 14A	
8819	R 2B 2C 9B 10 13C	CC 2B 2C
8822	R 2A 3B 5A 5C 11B 13G 14	CC 5A 5C C005/2A
8825	M NAT R 6G 13H 14F	
8828	R 1D 13N V VPAC	
8831	M NAT R 6G 13F 14F	
8834	R 2B 2C 6C 7C 10 13C	CC 2B 2C
8837	R 3A 3C 4A 9B 10B 13M	CC 3A 3C
8840	R 1C 6	
8843	M CEP R 5D 6G 10E 13C 13J 13K 14D	CC 13C 13J 13K
8846	M CAR R 2 3 7F 9	CC 2 3
8849	R 13K V VSEA	
8852	R 3B 3C 9 12E V VAFI	CC 3B 3C
8855	M SAM R 2 10A 14	
8858	R 4A 6G 10D 13E 13F 14D	CC 13E 13F
8861	M SAT R 3A 3B 6E 9B	CC 3A 3B C011/6E
8864	M NAT R 2B 6B 6F 7E 13F	CC 6B 6F
8867	M SP R 6G 10C 13D 13M	CC 13D 13M
8870	R 5 6G 14 V VNAT	C004/6G
8873	R 4 6G 9C 9D 12E 12F 13I	CC 9C 9D CC 12E 12F
8876	R 2A 10A 12D 14G	
8879	M INO NAT R 3B	
8882	R 2C 6D	
8885	R 5 6B 11B 13G 14C	
8888	R 2 6G 7	C009/6G
8891	M NAT R 6A 14E	

1	2	3
8894	M AFI R 3C 12F 14A	
8897	M EA	
8900	R 3A 10D 13G 14B	
8903	M AFI CWP R 10B 13M	
8906	M NAT R 6A 6E 7B 9B 13H	CC 6A 6E
8909	R 2A 6E	
8912	R 5B 6G 11B 13D 14C	C004/6G
8915	R 3C 5A	
8918	M MID CAR R 6C	
8921	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
8924	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
8927	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
8930	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
8933	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
8936	W MONDIALE WORLDWIDE MUNDIAL	C100/I II
8939	R 2A 2C 6F 10B 13C	CC 2A 2C
8942	M SEA R 3A	
8945	R 10F 13K 14E V VMID	
8948	R 6A 12C	
8951	M MID	
8954	R 3 10E 12J 14B	
8957	R 3B 6D 12C 13D 14G V VEUR	
8960	R 6G 7F	

MOD 27/204
Aer 2

bande/band/banda 10005-10100 kHz **10 MHz**

1	2	3
10006	R 6A 10 13G	
10009	R 2B 2C 7B 9B 13K	CC 2B 2C
10012	R 5 10 13J	
10015	R 2 6C 12D	
10018	M MID R 6G 9 13J 13K	CC 13J 13K C003/6G
10021	R 1 6B 12C 13G	
10024	M SAM R 2B 2C 3B 9B	CC 2B 2C 3B
10027	W MONDIALE WORLDWIDE MUNDIAL	C100/I II
10030	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
10033	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
10036	R 1E 6E 13G 13H	CC 13G 13H
10039	R 3B 3C 4A 9B 12C	CC 3B 3C
10042	M EA R 9C 10F 13C 13J 13K	CC 13C 13J 13K
10045	R 2 3A 11B 13H 14	CC 2 3A
10048	M NP R 2A 5D 13A 13B	CC 13A 13B
10051	R 6A 6E 13I V VNAT	CC 6A 6E
10054	R 2A 2C 6G 12	CC 2A 2C C004/6G
10057	M CEP R 3A V VAFI	
10060	R 1D 6F 13K	
10063	R 4B 6G 12E	C004/6G
10066	M SEA R 1B 10A 13M	
10069	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
10072	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
10075	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
10078	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
10081	M CWP R 4A 6A 7C 13F	C006/6A
10084	M EUR SP R 6E 13D	
10087	R 3 14 V VSAM	

bande/band'/banda 10 005-10 100 kHz **10 MHz**
(concluded)

1	2	3
10 090	R 12E 12F V VNCA	CC 12E 12F
10 093	R 5B 6B 11B 13N	
10 096	M NCA SAM R 7D	

MOD 27/205
Aer 2

bande/band'/banda 11 275-11 400 kHz **11.3 MHz**

1	2	3
11 276	R 2A 2C 6G 10E 13J	CC 2A 2C C002/6G
11 279	M NAT R 2B 6F 9C	
11 282	M CEP R 4A 6G 13H	C003/6G
11 285	R 2A 3B 7	CC 2A 3B
11 288	R 5A 6G 11B	
11 291	M SAT R 3B 3C	CC 3B 3C
11 294	R 2A 6G 7C	C002/6G
11 297	R 2 12F	
11 300	M AFI R 6G 13H	C002/6G
11 303	R 3C 13E	
11 306	R 6G 7E 11B	
11 309	M NAT R 3A 6D	
11 312	R 5 9C 9D	CC 9C 9D
11 315	R 6G V VCAR	
11 318	R 3 4A 13D	
11 321	R 6A 13F	
11 324	R 3A 3C 4B 12C	CC 3A 3C
11 327	M SP R 3B 5 13C	
11 330	M AFI NP R 3A 13F	
11 333	R 2B 2C 10	CC 2B 2C

bande/*band*/banda 11 275-11 400 kHz

11.3 MHz
(concluded)

1	2	3
11 336	M NAT R 3	
11 339	R 2B 6B 9 13K	
11 342	W MONDIALE WORLDWIDE MUNDIAL	C100/II III
11 345	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
11 348	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
11 351	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
11 354	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
11 357	R 6A 6E 10A	CC 6A 6E
11 360	M SAM R 2 3 14	CC 2 3
11 363	R 1 6E 10A	
11 366	R 1C 6B 6F 13K	CC 6B 6F
11 369	R 6G 13G	
11 372	R 2C 3B 6D	
11 375	M MID R 10A 13C	
11 378	R 3C 13M V VEUR	
11 381	R 6 12E 12J	CC 12E 12J
11 384	M CWP R 1D 12J	
11 387	M CAR V VSEA	
11 390	R 2 10	
11 393	R 9B 12E V VMID	
11 396	M CAR EA SEA	CC EA SEA

MOD 27/206
Aer 2

bande/band/banda 13 260-13 360 kHz

13.3 MHz

1	2	3
13 261	V VAFI	
13 264	R 14 V VEUR	
13 267	R 3 13H	
13 270	R 6G V VNAT	
13 273	M AFI	
13 276	R 6G V VNAT	
13 279	V VNCA VSAM	
13 282	V VPAC	
13 285	R 10 V VSEA	
13 288	M AFI EUR MID	CC AFI EUR MID
13 291	M NAT R 6	
13 294	M AFI	
13 297	M CAR EA SAM	CC CAR SAM
13 300	M CEP CWP NP SP R 4	CC CEP CWP NP SP
13 303	M EA NCA	CC EA NCA
13 306	M INO NAT	
13 309	M EA SEA R 13C 13K	CC EA SEA CC 13C 13K
13 312	M MID R 11B	
13 315	M NCA SAT	
13 318	M SEA R 13	
13 321	R 2 3	CC 2 3
13 324	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
13 327	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
13 330	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
13 333	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
13 336	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
13 339	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
13 342	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
13 345	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
13 348	W MONDIALE WORLDWIDE MUNDIAL	C100/II V

bande/*band*/banda 13 260-13 360 kHz **13.3 MHz**
(concluded)

1	2	3
13 351	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
13 354	R 5 7	CC 5 7
13 357	M SAT R 2	

MOD 27/207
Aer 2

bande/*band*/banda 17 900-17 970 kHz **18 MHz**

1	2	3
17 901	R 12	
17 904	M CEP CWP NP SP R 4	CC CEP CWP NP SP
17 907	M CAR EA SAM SEA	CC CAR SAM CC EA SEA
17 910	R 10	
17 913	R 6G 13	
17 916	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
17 919	W MONDIALE WORLDWIDE MUNDIAL	C100/II IV
17 922	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
17 925	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
17 928	W MONDIALE WORLDWIDE MUNDIAL	C100/III IV
17 931	W MONDIALE WORLDWIDE MUNDIAL	C100/I V
17 934	W MONDIALE WORLDWIDE MUNDIAL	C100/II III
17 937	W MONDIALE WORLDWIDE MUNDIAL	C100/IV V
17 940	W MONDIALE WORLDWIDE MUNDIAL	C100/II III
17 943	R 6	
17 946	M NAT R 14	
17 949	R 5	
17 952	R 3	
17 955	M SAT R 6B	
17 958	M NCA	
17 961	M AFI EUR INO MID	CC AFI EUR INO MID
17 964	R 2 11B	
17 967	R 5 13A 13B 13E 13F	CC 13A 13B 13E 13F

**Explication des symboles et
abréviations**

Colonne 2 M = ZLAMP
R = ZLARN
V = VOLMET
W = mondiale

Colonne 3 CC = voie commune
à

C001/... Dans la zone indi-
quée après la barre
oblique, utilisation
diurne

C002/6G Dans la zone 6G,
utilisation seulement
à l'est de 95° E

C003/6G Dans la zone 6G,
utilisation seulement
à l'ouest de 95° E

C004/6G Utilisation limitée à
l'est de 110° E

C005/2A Utilisation limitée au
nord de 60° N

C006/6A Utilisation limitée à
l'est de 75° E

C007 Pas utilisé

C008 Pas utilisé

C009/6G Dans la zone 6G,
utilisation seulement
à l'est de 110° E et au
sud de 25° N

C010/6G Dans la zone 6G,
utilisation seulement
à l'est de 118° E et
au nord de 40° N

C011/6E Dans la zone 6E,
utilisation limitée au
sud de 20° N

C100/... La zone d'allotisse-
ment pour utilisation
mondiale est indiquée
à la suite du symbole.
En ce qui concerne la
procédure pour
l'assignation des
fréquences, voir le
numéro 27/194 A

**Explanation of symbols
and abbreviations**

Column 2 M = MWARA
R = RDARA
V = VOLMET
W = worldwide

Column 3 CC = common
channel to

C001/... Restricted to daytime
only, in the area
indicated after the
slant stroke

C002/6G In area 6G,
operation is restricted
to east of 95° E

C003/6G In area 6G,
operation is restricted
to west of 95° E

C004/6G Use limited to east of
110° E

C005/2A Use limited to north
of 60° N

C006/6A Use limited to east of
75° E

C007 Not used

C008 Not used

C009/6G In area 6G, use
limited to east of
110° E and south of
25° N

C010/6G In area 6G, use
limited to east of
118° E and north
of 40° N

C011/6E In area 6E, use is
limited to south of
20° N

C100/... Worldwide Allotment
Area is indicated after
the symbol. For
assignment procedure
see No. 27/194 A

**Explicación de los símbolos
y abreviaturas**

Columna 2 M = ZRMP
R = ZRRN
V = VOLMET
W = mundial

Columna 3 CC = canal común a

C001/... En la zona indicada
después del trazo
oblicuo, utilización
diurna

C002/6G En la zona 6G, el
funcionamiento está
limitado al este de
95° E

C003/6G En la zona 6G, el
funcionamiento está
limitado al oeste de
95° E

C004/6G Uso limitado al este
de 110° E

C005/2A Uso limitado al norte
de 60° N

C006/6A Uso limitado al este
de 75° E

C007 No ha sido utilizado

C008 No ha sido utilizado

C009/6G En la zona 6G, el
funcionamiento está
limitado al este de
110° E y al sur de
25° N

C010/6G En la zona 6G, el
funcionamiento está
limitado al este de
118° E y al norte
de 40° N

C011/6E En la zona 6E, uso
limitado al sur de
20° N

C100/... Se indica la zona de
adjudicación para
utilización mundial
después del símbolo.
En lo que se refiere
al procedimiento para
la asignación de las
frecuencias, véase el
número 27/194 A

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CONFERENCE AERONAUTIQUE (R)
(Genève, 1978)

Addendum au ✓
Document N° 345-F/E/S ✓
4 mars 1978
Original : français
 anglais
 espagnol

COMMISSION 5
COMMITTEE 5
COMISIÓN 5

Cet addendum contient les renseignements qui figurent dans le cinquième projet de Plan; ils sont présentés par zones aéronautiques et ils constituent le numéro 27/189 de l'appendice 27 Aer2.

This addendum contains the information appearing in the Fifth Draft Plan arranged by aeronautical area and constitutes No. 27/189 of Appendix 27 Aer2.

Este addendum contiene las informaciones que figuran en el quinto proyecto de Plan; se presentan por zonas aeronáuticas y constituyen el número 27/189 del apéndice 27 Aer2.

M. CHEF
Président du Groupe de travail 5 Ad Hoc



Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)										
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
AFI	2851 2878	3419 3425 3467	4657		5493 5652 5658	6559 6574 6673	8894 8903		11300 11330	13270 13285 13291	17961
CAR	2887	3455			5520 5550	6577 6586	8846 8918		11387 11396	13294	17907
CEP	2869	3413	4657		5547 5574	6673	8843	10057	11282	13297	17904
CWP	2998	3455	4666		5652 5661	6532 6562	8903	10081	11384	13297	17904
EA	3016	3485 3491			5655 5670	6571	8897	10042	11396	13294 13300 13306	17907
EUR		3479			5661	6598		10084		13285	17961
INO		3476			5634		8879			13303	17961
MID	2944 2992	3467 3473	4669		5658 5667	6625 6631	8918 8951	10018	11375	13285 13309	17961
NAT	2872 2899 2962 2971 3016	3476	4675		5598 5616 5649	6622 6628	8825 8831 8864 8879 8891 8906		11279 11309 11336	13288 13303	17946
NCA	3004 3019		4678		5646 5664	6592		10096		13300 13312	17958
NP	2932				5628	6655 6661		10048	11330	13297	17904
SAM	2944	3479	4669		5526	6544	8855	10024 10096	11360	13294	17907
SAT	2854 2935	3452			5565	6535	8861		11291	13312 13354	17955
SEA		3470 3485			5649 5655	6556	8942	10066	11396	13306 13315	17907
SP		3467			5559 5577		8867	10084	11327	13297	17904

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)										
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
1						6556		10021	11363		
1B	2860* 2881* 2890	3458* 3473* 3488*			5484 5568	6550 6595		10066			
1C	2977 2983	3464 3470	4666		5577 5595	6544	8816		11366		
1D	2974 2980 2989	3410 3416 3446	4651		5622 5628 5637	6604 6610	8828	10060	11384		
1E	2965	3491			5583	6667		10036			
2	2938 2950		4696		5556	6583 6601	8846 8855 8888	10015 10045	11297 11360 11390	13318 13354	17964
2A	2851* 2863 2869 2875 2881 2887 2896 2917 2926 2932 2941	3416* 3422 3434 3440 3455	4657* 4690		5481 5490 5496 5502 5523 5547 5559 5604	6526 6532 6547 6553 6559 6565 6574 6673	8822* 8849 8876 8909	10048 10054	11276 11285 11294		
2B	2857 2869 2875 2881 2887* 2896 2902 2908 2914 2920 2929	3401 3407 3416* 3422 3428 3449	4660 4672 4681 4690 4693		5490 5496 5502 5508 5520 5526 5550 5574 5595 5607 5613 5619	6526 6532 6562 6568 6577 6655 6661 6667	8819 8834 8864	10009 10024	11279 11333 11339		

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)										
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
2C	2857	3401	4657*		5481	6535	8819	10009	11276		
	2863	3407	4660		5487	6541	8834	10024	11333		
	2866	3428	4681		5508	6547	8849	10054	11372		
	2884	3434	4693		5514	6553	8882				
	2893	3440			5520	6562					
	2902	3449			5526	6568					
	2908	3455			5550	6577					
	2914				5562	6586					
	2920				5574						
	2926				5586						
	2932				5604						
3	2893		4693		5556	6583	8846	10087	11318	13318	17952
	2935					6589	8954		11336*	13357	
									11360		
3A	2854	3404	4672		5484	6526	8837	10045	11309*		
	2860	3416*	4684		5490	6532	8861	10057	11324		
	2869	3422	4690		5496	6538	8900		11330		
	2875	3431*			5502	6544	8942				
	2881	3443			5511	6550					
	2887*	3452			5517	6556					
	2896				5568	6607					
	2905				5580	6613					
	2911*				5601	6619					
	2923*				5625	6649					
	2959										
3B	2851	3401	4657		5493	6529	8822	10024	11285		
	2854	3407	4681		5499	6538	8852	10039	11291		
	2872	3413			5505	6544	8861		11327		
	2878	3419			5514	6559	8879		11372		
	2884*	3425			5520	6568	8957				
	2902	3431*			5526	6577					
	2908	3437			5550	6595					
	2914	3443			5562	6625					
	2968*				5580	6631					
					5601						
3C	2851	3404	4684		5484	6550	8837	10039	11291		
	2860	3410			5514	6556	8852		11303		
	2866*	3419			5562	6595	8894		11324		
	2878	3425			5568	6658	8915		11378		
	2905	3452			5586	6664					
	2950				5637	6670					
	2974				5643						
	2980										
	2986										

MOD 27/189

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)										
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
4						6565	8873			13297	17904
4A	2926* 2953	3437 3491			5547 5559	6526 6532 6616	8837 8858 8867	10039 10081	11282 11318		
4B	2866 2893	3470			5481 5574 5604	6553 6577 6598		10063	11324		
5							8870 8885	10012	11312 11327	13351	17949 17967
5A	2986	3452			5577 5583	6544 6628	8822 8915		11288		
5B	2911 2968	3431 3488			5511 5568 5625	6550 6595	8912	10093			
5C	2905	3452			5583	6544	8822				
5D	2899 2971	3482			5526 5550	6535 6547	8843	10048			
6							8840		11381	13288	17943
6A	2872 2923 2947 3001	3479	4657* 4675		5580 5484 5601	6607 6613 6658	8891 8906 8948	10006 10051 10081*	11321 11357		
6B	2857 2920	3479 3488			5595 5502 5625	6607 6613 6619	8864 8885	10021 10093	11339 11366		17955
6C	2881 2956	3473	4651		5550 5580	6544 6631	8834 8918	10015			
6D	2866 2884	3416			5490 5520 5568 5574 5631	6550 6568 6577 6595	8882 8957		11309 11372		
6E	2854 2872 2917 3001	3443	4657* 4675		5550 5514 5526	6583 6655 6661	8876 8906 8909	10036 10051 10084	11357 11363		
6F	2926 2941	3434 3440			5496 5508	6526 6667	8849 8864	10064	11279 11366		

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)										
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
6G	2869* 2875* 2890 2896* 2899 2902* 2911* 2917* 2938* 2953 2958 2962 2971 2977 2983 2989 2995	3413* 3422* 3431* 3437 3446 3449* 3464 3482	4651* 4663* 4669* 4672* 4690* 4696*		5481 5487 5493* 5499* 5505* 5511* 5517* 5523 5547 5553 5559 5565 5571 5577 5583 5592 5598 5604 5610 5616 5622 5628* 5634* 5640*	6529 6535 6541 6547 6553 6559 6565 6574 6580 6586 6598 6604 6610 6616 6622 6628 6634 6649 6652 6673 6682	8816 8825 8831 8843 8858 8867 8870* 8873 8888* 8912* 8960	10018* 10054* 10063*	11276* 11282 11288 11294* 11300* 11369 11306 11315	13267 13273	17913
7					5508	6586	8888		11285	13351	
7B	2863 2965	3455			5577 5583	6556	8906	10009			
7C	2950	3407			5592	6568 6604	8834	10081	11294		
7D	2998				5481			10096			
7E	2887	3485			5520	6580 6628	8864		11288		
7F	2956	3461			5547 5568	6622	8831 8846				

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)										
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
9			4696		5583	6553	8819 8906	10018	11339		
9B	2860 2905 2929*	3401* 3419 3425 3476*	4660		5484 5508 5523 5565	6538 6547 6598 6622	8837 8846 8852 8861	10009 10024 10039	11393		
9C	2851	3404 3461	4675		5481	6580	8873	10042	11279 11312		
9D	3016	3404			5592	6535	8873		11312		
10			4696	5454	5604	6553	8819 8834	10006 10012	11390 11333	13282	17910
10A	2866 2875 2911 2944 2956 2992	3449 3470		5472 5475	5484 5490 5496 5565 5631	6535 6580 6604	8855 8876	10066	11357 11363 11375		
10B	2854 2860	3404 3467 3488	4651 4666 4681 4690 4693	5460 5466	5553 5568 5583	6547 6574 6598	8837 8849 8903				
10C	2926 2965	3491	4660 4669	5457	5481 5487 5502 5562 5595	6541 6556 6568	8900				
10D	2893 2935	3419 3425 3458	4666 4669 4678	5472 5475	5484 5490 5496 5586 5625	6535 6544 6562	8858 8867				
10E	2869 2944 2992	3446 3473	4651 4666 4684	5460	5481 5559 5577	6547 6598	8843 8954		11276		
10F	2950		4663	5451	5526	6673	8873	10057			
11B	2851 2878 3004 3019	3410 3428 3434 3443	4672	5451 5463 5469	5508 5514 5523 5571	6538 6550 6559 6565	8822 8885 8912	10045 10093	11288 11306	13309	17964

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)										
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
12		3440			5568			10054			
12A	2950				5604						
12C	2890 2920	3401 3464	4693	5460	5484 5490 5496 5502 5553 5613	6535 6574 6580 6622 6628	8816 8939 8957	10021 10039	11324		
12D		3407			5562	6673	8876	10015			
12E	2860 2956 2998	3461 3488	4681	5454 5475	5481 5487 5583 5595 5604	6547 6553 6598	8852 8873	10063 10090	11381 11393		
12F	2893 2956 2965 2998	3461 3488		5451 5475	5508 5556 5583 5604	6532 6553	8873 8894	10090	11297		
12G	2860 2875 2956 2998	3461 3488			5484 5523 5559 5583 5646	6526 6616					
12H	2956 2998	3461 3488		5451	5583						
12J	2860 2902 2926 2965	3419			5481 5496 5619	6547 6565	8954		11381 11384		
13										13315	17913
13A								10048			17967
13B								10048			17967
13C	2863 2869	3413 3458 3473			5490 5514 5553 5571 5577	6541 6556 6562 6568 6580	8819 8834 8843 8849	10042	11327 11375	13306	
13D	2914 2983	3425 3467	4660	5460	5562	6622 6628 6673	8867 8912 8957	10084	11318		

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)										
	3	3.5	4.7	5.4 (Reg. 2)	5.8	6.6	9	10	11.3	13.3	18
13E	2851	3491	4651 4663		5481 5583 5604	6553 6577	8858		11303		17967
13F	2851 2956 2998	3446 3476	4651 4663	5454	5481 5583 5604	6547 6553	8831 8858 8864	10081	11321 11330		17967
13G	2872 2971 3016	3434 3470	4666	5469 5475	5574	6538 6586	8822 8885 8900	10006 10021 10036	11369		
13H	2899 2965	3455 3485	4657	5463 5472	5484 5547	6598	8825 8906	10036 10045	11282 11300	13357	
13I	2860 2878 2887	3419	4678 4693	5451 5466	5496 5523	6574	8873	10051			
13J	2857 2863 2878 2890 2920	3410 3428 3458	4684 4696	5451 5454	5559 5568 5577	6550 6559 6580	8816 8843	10012 10018 10042	11276		
13K	2863 2932 3004 3019	3401 3458 3464	4663 4672	5463	5481 5547 5577 5604	6547 6553 6580	8843 8939 8945	10009 10018 10042 10060	11339 11366	13306	
13M	2908 2977	3437 3449	4660 4690	5463	5502	6574 6628	8837 8867 8903	10066	11378		
13N	2986	3443		5457	5508	6604	8828	10093			
14	2851 2878	3446 3461 3479			5526 5604	6580 6628	8822 8855 8870	10045 10087	11360	13309	17946
14A	2950	3413	4678*			6547 6553	8876 8894				
14B		3488	4684*			6535 6604 6673	8900 8954				

Zones Areas Zonas	Bandes de fréquences/Frequency bands/Bandas de frecuencias (MHz)										
	3	3.5	4.7	5.4 (Reg. 2)	5.6	6.6	9	10	11.3	13.3	18
14C	2887	3452	4684*			6541 6586	8885 8912				
14D	2950	3407	4693*		5481	6559 6574	8843 8858				
14E		3413				6565 6616	8891 8945				
14F		3488				6526 6610	8825 8831				
14G	2869 2944		4678*		5481 5550 5580		8816 8957				
VAFI	2860	3404			5499	6538	8852	10057		13261	
VCAR	2950				5580				11315		
VEUR	2998	3413			5640	6580	8957		11378	13264	
VMID	2956				5589		8945		11393		
VNAT	2905	3485			5592	6604	8870	10051		13267 13273	
VNCA		3461	4663		5676			10090		13276	
VPAC	2863					6679	8828			13279	
VSAM	2881				5601			10087		13276	
VSEA	2965	3458			5673	6676	8939		11387	13282	

CONFERENCE AERONAUTIQUE (R)**(Genève, 1978)**

Corrigendum au
Document No. 345-F/E/S
5 mars 1978
Original : français
 anglais
 español

SEANCE PLENIERE
PLENARY MEETING
SESIÓN PLENARIA

CINQUIEME PROJET DE PLAN

FIFTH DRAFT PLAN

QUINTO PROYECTO DE PLAN

Page Pági.	Fréq. Freq. Frec.	Col. 1	Col. 2		Col. 3	
			ADD	SUP	ADD	SUP
3	2890			12C		
5	2980		12C			
7	3443		4B			
8	3470			4B		
9	4666			13G		
9	4675		13G		COOL/13G	
12	5553			12C		
12	5577			M SP		
12	5589		R 12C			
13	5643		M SP			
15	6538			13G		
15	6544			M SAM		
15	6556			7B		
15	6571		R 12C			
15	6574			12C		
16	6580			12C		
16	6592		R 12C			
16	6613		13G			
17	6628			5A		
17	6649		M SAM			
17	6652		7B			

Page Pági.	Fréq. Freq.	Col. 1	Col. 2		Col. 3	
			ADD	SUP	ADD	SUP
17	6664		5A			
18	8816		4A 14A	1C 14G		
18	8819		9B	9		
18	8831			7F		
18	8840		1C			
18	8846		9	9B		
18	8849		13K	2A 2C 6F 10B 13C		CC 2A 2C
			V VSEA			
18	8852		9	9B		
18	8861		6E		CO11/6E	
19	8867		10C	4A 10D		
19	8873			10F		
19	8876		14G	6E 14A		
19	8900		10D	10C		
19	8906		9B	9		
20	8939		2A 2C 6F 10B 13C	12C 13K V VSEA	CC 2A 2C	
20	8945		10F			
20	8948		12C			
20	8957		14G	14J		
20	8960		7F			
21	10 042		10F			
21	10 057			10F		
23	11 288			7E		
23	11 306		7E			
23	11 309					CO03/3A

Page Pági.	Fréq. Freq.	Col. 1	Col. 2		Col. 3	
			ADD	SUP	ADD	SUP
24	11 336		R 14			CO03/3
26	13 264					
26	13 267	SUP 13 267 ADD 13 270				
26	13 270	SUP 13 270 ADD 13 273				
26	13 273	SUP 13 273 ADD 13 276				
26	13 276	SUP 13 276 ADD 13 279				
26	13 279	SUP 13 279 ADD 13 282				
26	13 282	SUP 13 282 ADD 13 285				
26	13 285	SUP 13 285 ADD 13 288				
26	13 288	SUP 13 288 ADD 13 291				
26	13 291	SUP 13 291 ADD 13 294				
26	13 294	SUP 13 294 ADD 13 297				
26	13 297	SUP 13 297 ADD 13 300				
26	13 300	SUP 13 300 ADD 13 303				
26	13 303	SUP 13 303 ADD 13 306				
26	13 306	SUP 13 306 ADD 13 309				
26	13 309	SUP 13 309 ADD 13 312		14		

Page Pági.	Fréq. Freq.	Col. 1	Col. 2		Col. 3	
			ADD	SUP	ADD	SUP
27	13 312	SUP 13 312 ADD 13 315				
27	13 315	SUP 13 315 ADD 13 318				
27	13 318	SUP 13 318 ADD 13 321				
27	13 321	SUP 13 321 ADD 13 324				
27	13 324	SUP 13 324 ADD 13 327				
27	13 327	SUP 13 327 ADD 13 330				
27	13 330	SUP 13 330 ADD 13 333				
27	13 333	SUP 13 333 ADD 13 336				
27	13 336	SUP 13 336 ADD 13 339				
27	13 339	SUP 13 339 ADD 13 342				
27	13 342	SUP 13 342 ADD 13 345				
27	13 345	SUP 13 345 ADD 13 348				
27	13 348	SUP 13 348 ADD 13 351				
27	13 351	SUP 13 351 ADD 13 354				
27	13 354	SUP 13 354 ADD 13 357	(M SAT) (R 2)	(R 2 SAT)		
27	13 357	SUP 13 357		R 3 13H		
27		ADD 13 267	R 3 13H			

2 COLL/6E In Area 6E use is limited to S of 20°N.

Dans la zone 6E, utilisation limitée au S de 20°N.

En la zona 6E, uso limitado al S de 20°N.

CONFERENCE AERONAUTIQUE (R)

(Genève, 1978)

voir cov. 1
voir add.

Document N° 345-F/E/S

4 Mars 1978

Original: français
anglais
espagnol

COMMISSION 5

COMMITTEE 5

COMISIÓN 5

Rapport du Groupe de travail 5 ad hoc à la Commission 5

CINQUIEME PROJET DE PLAN

Comme il a été décidé par la Commission 5 à sa dixième séance, le Groupe de travail 5 ad hoc chargé d'apporter des modifications au quatrième projet de Plan s'est réuni samedi 4 mars 1978 dans l'après-midi. Les résultats obtenus figurent dans l'Annexe au présent document.

Report of Working Group 5 Ad Hoc to Committee 5

FIFTH DRAFT PLAN

As decided by Committee 5 at its tenth meeting, Working Group 5 Ad Hoc designated to make adjustments to the fourth draft Plan met during Saturday afternoon, 4 March 1978. The results achieved are presented in the Annex to the present document.

Informe del Grupo de trabajo 5 Ad hoc a la Comisión 5

QUINTO PROYECTO DE PLAN

De acuerdo con la decisión tomada por la Comisión 5 en su décima sesión, el Grupo de trabajo 5 Ad Hoc, creado para introducir modificaciones en el cuarto proyecto de Plan, se reunió el sábado 4 de marzo de 1978 por la tarde. Los resultados conseguidos figuran en el Anexo al presente documento.

Annexe

Annex

Anexo

M. CHEF

Président du Groupe de travail 5 Ad Hoc



ANNEXEQuatrième projet de PlanTitre des colonnes

Colonne 1	Fréquence kHz
Colonne 2	Zone d'emploi autorisé
Colonne 3	Observations

Explication des symboles et abréviations

Colonne 2	M = ZLAMP R = ZLARN V = VOLMET W = mondiale
Colonne 3	CC = voie commune à
CO01/...	Dans la zone indiquée après la barre oblique, utilisation diurne
CO02/6G	Dans la zone 6G, utilisation seulement à l'est de 95°E
CO03/6G	Dans la zone 6G, utilisation seulement à l'ouest de 95°E
CO04/6G	Utilisation limitée à l'est de 110°E
CO05/2A	Utilisation limitée au nord de 60°N
CO06/6A	Utilisation limitée à l'est de 75°E
CO07/3A	Partage possible pour les fréquences non utilisées à Bods
CO08/3	Partage possible pour les fréquences non utilisées à Bods
CO09/6G	Dans la zone 6G, utilisation seulement à l'est de 110°E et au sud de 25°N
CO10/6G	Dans la zone 6G, utilisation seulement à l'est de 118°E et au nord de 40°N
Cl00/...	La zone d'allotissement pour utilisation mondiale est indiquée à la suite du symbole. En ce qui concerne la procédure pour l'assignation des fréquences, voir le numéro 27/194A

ANNEXFourth draft PlanColumn headings

Column 1	Frequency kHz
Column 2	Authorized area of use
Column 3	Remarks

Explanation of symbols and abbreviations

Column 2	M = MWARA R = RDARA V = VOLMET W = worldwide
Column 3	CC = common channel to
CO01/...	Restricted to daytime only, in the area indicated after the slant stroke
CO02/6G	In area 6G, operation is restricted to east of 95°E
CO03/6G	In area 6G, operation is restricted to west of 95°E
CO04/6G	Use limited to east of 110°E
CO05/2A	Use limited to north of 60°N
CO06/6A	Use limited to east of 75°E
CO07/3A	Sharing possible for frequencies not used at Bods
CO08/3	Sharing possible for frequencies not used at Bods
CO09/6G	In area 6G, use limited to east of 110°E and south of 25°N
CO10/6G	In area 6G, use limited to east of 118°E and north of 40°N
Cl00/...	Worldwide Allotment Area is indicated after the symbol. For assignment procedure see No. 27/194A

ANEXOCuarto proyecto de PlanTítulos de las columnas

Columna 1	Frecuencia kHz
Columna 2	Zona de uso autorizado
Columna 3	Observaciones

Explicación de los símbolos y abreviaturas

Columna 2	M = ZRMP R = ZRRN V = VOLMET W = mundial
Columna 3	CC = canal común a
CO01/...	En la zona indicada después del trazo oblicuo, utilización diurna
CO02/6G	En la zona 6G, el funcionamiento está limitado al este de 95°E
CO03/6G	En la zona 6G, el funcionamiento está limitado al oeste de 95°E
CO04/6G	Uso limitado al este de 110°E
CO05/2A	Uso limitado al norte de 60°N
CO06/6A	Uso limitado al este de 75°E
CO07/3A	Compartición posible para las frecuencias no utilizadas en Bods
CO08/3	Compartición posible para las frecuencias no utilizadas en Bods
CO09/6G	En la zona 6G, el funcionamiento está limitado al este de 110°E y al sur de 25°N
CO10/6G	En la zona 6G, el funcionamiento está limitado al este de 118°E y al norte de 40°N
Cl00/...	Se indica la zona de adjudicación para utilización mundial después del símbolo. En lo que se refiere al procedimiento para la asignación de las frecuencias, véase el número 27/194A

1	2										3
2851	M R	AFI 3C	3B	13E	13F	11B	14	9C	2A		CC 3C 3B CC 13E 13F C001 / 2A
2857	R	2B	2C	6B	13J						CC 2B 2C
2860	R V	3A VAFI	3C	12E	12J	9B	10B	13I	1B		CC 3A 3C CC 12E 12J C001 / 1B
2863	R V	2A VPAC	2C	13C	13J	13K	7B				CC 2A 2C CC 13C 13J 13K
2854	M R	SAT 3A	3B	6E	10B						CC 3A 3B
2866	R	2C	6D	10A	3C	4B					C001 / 3C
2869	M R	CEP 2A	2B	3A	13C	10E	14G	6G			CC 2A 2B 3A C009/6G
2872	M R	NAT 6A	6E	3B	13G						CC 6A 6E
2875	R	2A	2B	3A	10A	12G		6G			CC 2A 2B 3A C009/6G
2878	M R	AFI 3C	3B	13I	13J	11B	14				CC 3C 3B CC 13I 13J
2881	R V	2A VSAM	2B	3A	6C	1B					CC 2A 2B 3A C001 / 1B
2884	R	2C	6D	3B							C001 / 3B
2887	M R	CAR 2A	2B	3A	13I	7E	14C				CC 2A 2B 3A C001/2A 2B 3A
2890	R	6G	1B	13J	12C						
2893	R	2C	3	12F	4B	10D					CC 2C 3

1	2					3
	page 4					
2896	R	2A	2B	3A	6G	CC 2A 2B 3A CO09/6G
2899	M R	NAT 6G	5D	13H		
2902	R	2B	2C	3B	12J 6G	CC 2B 2C 3B CO09/6G
2905	R V	3A VNAT	3C	5C	9B	CC 3A 3C
2908	R	2B	2C	3B	13M	CC 2B 2C 3B
2911	R	5B	10A	3A	6G	C001 /3A CO10/6G
2914	R	2B	2C	3B	13D	CC 2B 2C 3B
2917	R	2A	6E	6G		CO10/6G
2920	R	2B	2C	6B	13J 12C	CC 2B 2C
2923	R	6A	3A			C001 /3A
2926	R	2A	2C	6F	12J 10C 4A	CC 2A 2C C001 /4A
2929	R	2B	9B			C001 /9B
2932	M R	NP 2A	2C	13K		CC 2A 2C
2935	M R	SAT 3	10D			
2938	R	2	6G			CO09/6G
2941	R	2A	6F			
2944	M R	MID 10A	SAM 10E	14G		

1	2										3
2950	R V	2 VCAR	3C	14A	14D	7C	12A	10F			CC 2 3C CC 14A 14D
2956	R V	12E 12F VMID	12G	12H	6C	10A	13F	7F			CC 12E 12F 12G 12H
2959	R	3A									
2962	M R	NAT 6G									
2965	R V	12F 12J VSEA	1E	13H	10C	7B					CC 12F 12J
2958	R	5B 3B	6G								C001 /3B C009/6G
2953	R	6G 4A									
2971	M R	NAT 6G	5D	13G							
2974	R	3C 1D									
2977	R	6G 1C	13M								
2980	R	3C 1D									
2983	R	6G 1C	13D								
2986	R	3C 5A	13N								
2989	R	6G 1D									
2992	M R	MID 13C	10A	10E							
2995	R	6G									
2998	M R V	CWP 12E VEUR	12F	12G	12H	13F	7D				CC 12E 12F 12G 12H

1	2			3
	page 6			
3001	R	6A 6E		CC 6A 6E
3004	M R	NCA 11B 13K		
3016	M R	EA NAT 13G 9D		
3019	M R	NCA 11B 13K		
2947	R	6A		
3007	W	MONDIALE WORLDWIDE MUNDIAL		C100/II III
3010	W	MONDIALE WORLDWIDE MUNDIAL		C100/I IV
3013	W	MONDIALE WORLDWIDE MUNDIAL		C100/II V

1	2							3
3401	R	2B	2C	3B	13K	12C	9B	CC 2B 2C 3B C001/9B
3404	R V	3A VAF1	3C	9C	9D	10B		CC 3A 3C CC 9C 9D
3407	R	2B	2C	3B	7C	12D	14D	CC 2B 2C 3B
3410	R	1D	3C	13J	11B			
3413	M R V	CEP 14A VEUR	14E	3B	13C	6G		CC 14A 14E C009/6G
3416	R	1D	6D	2A	2B	3A		CC 2A 2B 3A C001 /2A 2B 3A
3419	M R	AF1 3C	3B	9B	10D	12J	13I	CC 3C 3B
3422	R	2A	2B	3A	6G			CC 2A 2B 3A C001/6G C004/6G
3425	M R	AF1 3C	3B	9B	10D	13D		CC 3C 3B
3428	R	2B	2C	13J	11B			CC 2B 2C
3431	R	5B	3A	3B	6G			CC 3A 3B C001 /3A 3B C009/6G
3434	R	11B	2A	2C	6F	13G		CC 2A 2C
3437	R	6G	4A	13M	3B			C001 /3B
3440	R	2A	2C	6F	12			CC 2A 2C
3443	R	3A	3B	6E	11B	13N		CC 3A 3B
3446	R	10E	13F	14	1D	6G		
3449	R	2B	2C	10A	13M	6G		CC 2B 2C C001/6G C004/6G

1	2										3
	page 8										
3452	M R	SAT 3A	3C	14C	5A	5C					CC 3A 3C CC 5A 5C
3455	M R	CAR 2A	CWP 2C	7B	13H						CC 2A 2C
3458	R V	13C	13J	13K	10D	1B					CC 13C 13J 13K C001 /1B
3461	R V	12E VNCA	12F	12G	12H	7F	9C	14			CC 12E 12F 12G 12H
3464	R	6G	1C	13K	12C						
3467	M R	AFI 10B	MID 13D	SP							CC AFI MID
3470	M R	SEA 1C	4B	10A	13G						
3473	M R	MID 6C	10E	13C	1B						C001 /1B
3476	M R	INO 13F	NAT 9B								C001/9B
3479	M R	EUR 6B	SAM 14	6A							
3482	R	6G	5D								
3485	M R V	EA 7E VNAT	SEA 13H								CC EA SEA
3488	R	12E	12F	12G	12H	14B	14F	6B	10B	5B 1B	CC 12E 12F 12G 12H CC 14B 14F C001 /1B
3491	M R	EA 1E	4A	10C	13E						CC 1E 4A
3494	W	MONDIALE	WORLDWIDE	MUNDIAL							C100/II
3497	W	MONDIALE	WORLDWIDE	MUNDIAL							C100/II

1	2										3
4651	R	1D	10B	10E	13E	13F	6C	6G			CC 13E 13F CO01/6G
4654	W	MONDIALE	WORLDWIDE	MUNDIAL							C100/I II
4657	M R	AFI 3B	CEP 6A	6E	13H	2A	2C				CC 2A 2C CC 6A 6E CO01/6A 6E CO01/2A 2C
4660	R	13D	13M	9B		2B	2C	10C			CC 13D 13M CC 2B 2C
4663	R V	10F VNCA	13E	13F	13K	6G					CC 13E 13F 13K CO01/6G
4666	M R	CWP 1C	10B	10D	10E	13G					CC 10B 10D 10E
4669	M R	MID 10C	SAM 10D	6G							CC 10C 10D CO01/6G
4672	R	2A	2B	3A	11B	13K	4A	6G			CC 2A 2B 3A CO01/4A CO01/6G
4675	M R	NAT 6A	6E	9C							CC 6A 6E
4678	M R	NCA	10D	13I	14A	14G					CC 14A 14G CO01/14A 14G
4681	R	2B	2C	3B	12E	10B					CC 2B 2C 3B
4684	R	3A	3C		10E	13J	14B	14C			CC 3A 3C CC 14B 14C CO01/14B 14C
4687	W	MONDIALE	WORLDWIDE	MUNDIAL							C100/I II III
4690	R	10B	2A	2B	3A	13M	6G				CC 2A 2B 3A CO01/6G
4693	R	2B	2C	3	12C	13I	10B	14D			CC 2B 2C 3 CO01/14D
4696	R	2	9	10	13J	6G					CO01/6G

1	2							3
	page 10							
5451	R	11B	12F	12H	13I	13J	10F	CC 12F 12H CC 13I 13J
5454	R R	13J	10	13F	12E			
5457	R	10C	13N					
5460	R	10B	13D	10E	12C			
5463	R	13H	11B	13K	13M			
5466	R	10B	13I					
5469	R	11B	13G					
5472	R	10A	13H	10D				
5475	R	10A	12E	12F	13G	10D		CC 12E 12F

1	2															3					
5481	R	6G 13K	2A	2C	10C	10E	12E	12J	13E	13F	14D	14G	4B	7D	9C	CC	2A	2C	CC	13E	13F
																CC	10C	10E	CC	14D	14G
																CC	12E	12J	CC		
5484	R	3A	3C	6A	1B	9B	10A	12C	10D	12G	13H					CC	3A	3C			
5487	R	6G	2C	10C	12E																
5490	R	2A	2B	3A	6D	10A	12C	10D	13C							CC	2A	2B	3A		
5493	M R	AFI 3B	6G																C002	/6G	
5496	R	2A	2B	3A	6F	10A	12C	10D	12J	13I						CC	2A	2B	3A		
5499	R V	3B VAFI	6G																C002	/6G	
5502	R	2A	2B	3A	6B	10C	12C	13M								CC	2A	2B	3A		
5505	R	3B	6G																C003	/6G	
5508	R	2B	2C	6F	9B	7	11B	12F	13N							CC	2B	2C			
5511	R	3A	5B	6G															C002	/6G	
5514	R	3B	3C	2C	6E	11B	13C									CC	3B	3C			
5517	R	3A	6G																C002	/6G	
5520	M R	CAR 2B	2C	3B	7E	6D										CC	2B	2C	3B		
5523	R	6G	2A	11B	9B	12G	13I														
5526	M R	SAM 2B	2C	3B	5D	6E	14	10F								CC	2B	2C	3B		
5529	W	MONDIALE	WORLDWIDE	MUNDIAL															C100/I	II	
5532	W	MONDIALE	WORLDWIDE	MUNDIAL															C100/I	V	
5535	W	MONDIALE	WORLDWIDE	MUNDIAL															C100/I	IV	
5538	W	MONDIALE	WORLDWIDE	MUNDIAL															C100/II	V	
5541	W	MONDIALE	WORLDWIDE	MUNDIAL															C100/I	IV	

1	2 page 12											3
5544	W	MONDIALE WORLDWIDE MUNDIAL										C100/II V
5547	M R	CEP 66	2A	4A	7F	13H	13K					
5550	M R	CAR 2B	2C	3B	5D	6E	6C	14G				CC 2B 2C 3B
5553	R	66	10B	12C	13C							
5556	R	2	3	12F								CC 2 3
5559	M R	SP 66	2A	4A	10E	12G	13J					
5562	R	3B	3C	2C	10C	12D	13D					CC 3B 3C
5565	M R	SAT 66	10A	9B								
5568	R	3A	3C	12	13J	1B	5B	6D	7F	10B		CC 3A 3C
5571	R	66	11B	13C								
5574	M R	CEP 2B	2C	6D	4B	13G						CC 2B 2C
5577	M R	SP 66	13C	13J	13K	10E	1C	5A	7B			CC 13C 13J 13K
5580	R V	3A VCAR	3B	6A	6C	14G						CC 3A 3B
5583	R	66	5A	5C	12E	12F	12H	13E	13F	1E	7B 10B 9	CC 5A 5C CC 12E 12F 12H CC 13E 13F
5586	R	3C	2C	10D								
5589	V	VMID										
5592	R V	66 VNAT	7C	9D								
5595	R	2B	1C	6B	10C	12E						

1	2	3
5598	M R NAT 6G	
5601	R V 3A 3B 6A VSAM	CC 3A 3B
5604	R 6G 2A 2C 12E 12F 13E 13F 10 4B 14 12A 13K	CC 2A 2C CC 12E 12F CC 13E 13F
5607	R 2B	
5610	R 6G	
5613	R 2B 12C	
5616	M R NAT 6G	
5619	R 2B 12J	
5622	R 6G 1D	
5625	R 3A 5B 6B 10D	
5628	M R NP 1D 6G	C003 /66
5631	R 6D 10A	
5634	M R INO 6G	C002 /66
5637	R 3C 1D	
5640	V R VEUR 6G	C002 /66
5643	R 3C	

1	2		3
	page 14		
5646	M R	NCA 126	
5649	M	NAT SEA	
5652	M	AFI CWP	
5655	M	EA SEA	CC EA SEA
5658	M	AFI MID	CC AFI MID
5661	M	CWP EUR	
5664	M	NCA	
5667	M	MID	
5670	M	EA	
5673	V	VSEA	
5676	V	VNCA	

1	2												3			
6526	R	2A	2B	3A	6F	4A	12G	14F					CC	2A	2B	3A
6529	R	6G	3B													
6532	M R	CWP 2A	2B	3A	4A	12F							CC	2A	2B	3A
6535	M R	SAT 6G	12J	2C	5D	10A	10D	12C	14B	9D						
6538	R V	3A VAFI	3B	11B	13G	9B							CC	3A	3B	
6541	R	6G	2C	10C	13C	14C										
6544	M R	SAM 3A	3B	5A	5C	10D	1C	6C					CC CC	3A 5A	3B 5C	
6547	R	6G	2A	2C	12E	12J	5D	13F	13K	10E	10B	9B	14A	CC CC	2A 12E	2C 12J
6550	R	3A	3C	6D	5B	1B	11B	13J						CC	3A	3C
6553	R	6G	2A	2C	12E	12F	13E	13F	10	4B	13K	9	14A	CC CC CC	2A 12E 13E	2C 12F 13F
6556	M R	SEA 3A	3C	1	7B	10C	13C							CC	3A	3C
6559	M R	AFI 6G	2A	11B	13J	14D	3B									
6562	M R	CWP 2B	2C	10D	13C									CC	2B	2C
6565	R	6G	2A	4	11B	14E										
6568	R	2B	2C	3B	6D	7C	10C	13C						CC	2B	2C
6571	M	EA														
6574	M R	AFI 6G	2A	13M	13I	14D	10B	12C								

1	2	3
6577	M R CAR 2B 2C 3B 6D 13E 4B	CC 2B 2C 3B
6580	R V 6G 13C 13J 13K 10A 7E 14 9C 12C	CC 13C 13J 13K
6583	R 2 3 6E	CC 2 3
6586	M R CAR 6G 2C 7 13G 14C	
6589	R 3	
6592	M NCA	
6595	R 3C 3B 6D 5B 1B	CC 3C 3B
6598	M R EUR 6G 10E 10B 12E 13H 4B 9B	
6601	R 2	
6604	R V 6G 13N 1D 10A 7C 14B	
6607	R 3A 6A 6B	
6610	R 6G 1D 14F	
6613	R 3A 6B 6A	
6616	R 6G 4A 12G 14E	
6619	R 3A 6B	
6622	M R NAT 6G 12C 13D 7F 9B	
6625	M R MID 3B	

1	2										3
6628	M R	NAT 6G	13D	13M	5A	12C	7E	14			CC 13D 13M
6631	M R	MID 3B	6C								
6634	R	6G									
6649	R	3A	6G								
6652	R	6G									
6655	M R	NP 2B	6E								
6658	R	3C	6A								
6661	M R	NP 2B	6E								
6664	R	3C									
6667	R	2B	6F	1E							
6670	R	3C									
6673	M R	AFI 6G	CEP 2A	13D	12D	10F	14B				
6676	V	VSEA									
6679	V	VPAC									
6682	R	6G									
6637	W	MONDIALE	WORLDWIDE	MUNDIAL							C100/I II III
6640	W	MONDIALE	WORLDWIDE	MUNDIAL							C100/II V
6643	W	MONDIALE	WORLDWIDE	MUNDIAL							C100/ I IV
6646	W	MONDIALE	WORLDWIDE	MUNDIAL							C100/II V

1	2 page 18										3
8816	R	6G	1C	12C	14G	13J					
8819	R	2B	2C	10	13C	9					CC 2B 2C
8822	R	11B	5A	5C	3B	14	13G	2A			CC 5A 5C C005 /2A
8825	M R	NAT 6G	13H	14F							
8828	R V	1D	13N	VPAC							
8831	M R	NAT 6G	13F	7F	14F						
8834	R	2B	2C	10	6C	7C	13C				CC 2B 2C
8837	R	3A	3C	4A	10B	13M	9B				CC 3A 3C
8840	R	6									
8843	M R	CEP 6G	13C	13J	13K	5D	10E	14D			CC 13C 13J 13K
8846	M R	CAR 2	3	9B	7F						CC 2 3
8849	R	2A	2C	6F	10B	13C					CC 2A 2C
8852	R V	3C	3B	12E	9B						CC 3C 3B
8855	M R	SAM 2	10A	14							
8858	R	6G	13E	13F	4A	10D	14D				CC 13E 13F
8861	M R	SAT 3A	3B	9B							CC 3A 3B

1	2										3
8864	M R	NAT 2B	6B	6F	7E	13F					CC 6B 6F
8867	M R	SP 6G	13D	13M	4A	10D					CC 13D 13M
8870	R V	5 14 6G VNAT									COO4/6G
8873	R	6G	9C	9D	12E	12F	4	13I	10F		CC 9C 9D CC 12E 12F
8876	R	2A	6E	10A	12D	14A					
8879	M R	NAT 3B	1N0								
8882	R	2C	6D								
8885	R	5	6B	14C	11B	13G					
8888	R	2	6G	7							COO9/6G
8891	M R	NAT 6A	14E								
8894	M R	AFI 3C	12F	14A							
8897	M	EA									
8900	R	3A	14B	10C	13G						
8903	M R	AFI 10B	CWP 13M								
8906	M R	NAT 6A	6E	9	13H	7B					CC 6A 6E
8909	R	2A	6E								

1	2		3
	page 20		
8912	R	5B 14C 11B 13D 6G	C004/6G
8915	R	3C 5A	
8918	M R	MID CAR 6C	
8921	W	MONDIALE WORLDWIDE MUNDIAL	C100/I III
8924	W	MONDIALE WORLDWIDE MUNDIAL	C100/I IV
8927	W	MONDIALE WORLDWIDE MUNDIAL	C100/II V
8930	W	MONDIALE WORLDWIDE MUNDIAL	C100/I III
8933	W	MONDIALE WORLDWIDE MUNDIAL	C100/II V
8936	W	MONDIALE WORLDWIDE MUNDIAL	C100/I II
8939	R V	12C 13K VSEA	
8942	M R	SEA 3A	
8945	R V	14E 13K VMID	
8948	R	6A	
8951	M	MID	
8954	R	3 14B 10E 12J	
8957	R V	6D 3B 13D 12C 14J VEUR	
8960	R	6G	

1	2						3
10054	R	2A	2C	6G	12		CC 2A 2C C004 /66
10006	R	6A	10	13G			
10009	R	2B	2C	7B	9B	13K	CC 2B 2C
10012	R	5	10	13J			
10015	R	2	6C	12D			
10018	M R	MID 6G	9	13J	13K		CC 13J 13K C003 /66
10021	R	1	6B	12C	13G		
10024	M R	SAM 2B	2C	3B	9B		CC 2B 2C 3B
10036	R	1E	6E	13G	13H		CC 13G 13H
10039	R	3C	3B	4A	9B	12C	CC 3C 3B
10042	M R	EA 13C	13J	13K	9C		CC 13C 13J 13K
10045	R	2	3A	11B	13H	14	CC 2 3A
10048	M R	NP 2A	5D	13A	13B		CC 13A 13B
10051	R V	6A VNAT	6E	13I			CC 6A 6E
10057	M R V	CEP 3A VAFI	10F				
10060	R	1D	6F	13K			

1	2				page 22	3
10063	R	6G	4B	12E		C004 /6G
10066	M R	SEA 1B	10A	13M		
10081	M R	CWP 4A	6A	7C 13F		C006 /6A
10084	M R	EUR 6E	SP 13D			
10087	R V	3 VSAM	14			
10090	R V	12E 12F VNCA			CC	12E 12F
10093	R	5B	6B 11B 13N			
10096	M R	NCA 7D	SAM			
10027	W	MONDIALE	WORLDWIDE	MUNDIAL		C100 /I II
10030	W	MONDIALE	WORLDWIDE	MUNDIAL		C100 /I IV
10033	W	MONDIALE	WORLDWIDE	MUNDIAL		C100 /II V
10069	W	MONDIALE	WORLDWIDE	MUNDIAL		C100 /I IV
10072	W	MONDIALE	WORLDWIDE	MUNDIAL		C100 /I III
10075	W	MONDIALE	WORLDWIDE	MUNDIAL		C100 /II V
10078	W	MONDIALE	WORLDWIDE	MUNDIAL		C100 /I III

1	2						3
11312	R	5	9C	9D			CC 9C 9D
11276	R	2A	2C	10E	13J	6G	CC 2A 2C C002 /66
11279	M R	NAT 6F	9C	2B			
11282	M R	CEP 4A	13H	6G			C003 /66
11285	R	2A	3B	7			CC 2A 3B
11288	R	6G	11B	7E	5A		
11291	M R	SAT 3C	3B				CC 3C 3B
11297	R	2	12F				
11294	R	2A	7C	6G			C002 /66
11300	M R	AFI 13H	6G				C002 /66
11303	R	3C	13E				
11369	R	6G	13G				
11306	R	6G	11B				
11309	M R	NAT 6D	3A				C003 /3A
11315	R V	6G VCAR					
11318	R	3	4A	13D			
11321	R	6A	13F				

1	2				3		
				page 24			
11390	R	2	10				
11324	R	3A	3C	4B 12C	CC	3A	3C
11327	M R	SP 5	13C	3B			
11330	M R	AFI 13F	NP 3A				
11333	R	2B	2C	10	CC	2B	2C
11336	M R	NAT 3				C003	/3
11339	R	2B	9	13K 6B			
11357	R	10A	6A	6E	CC	6A	6E
11360	M R	SAM 2	3	14	CC	2	3
11363	R	10A	1	6E			
11366	R	6B	6F	1C 13K	CC	6B	6F
11372	R	3B	6D	2C			
11375	M R	MID 10A	13C				
11378	R V	3C VEUR	13M				
11381	R	6	12E	12J	12E	12J	
11384	M R	CWP 1D	12J				

1	2	3
11387	M V CAR VSEA	
11393	R V 9B 12E VMID	
11396	M CAR EA SEA	CC EA SEA
11342	W MONDIALE WORLDWIDE MUNDIAL	C100/ II III
11345	W MONDIALE WORLDWIDE MUNDIAL	C100/I IV
11348	W MONDIALE WORLDWIDE MUNDIAL	C100/II V
11351	W MONDIALE WORLDWIDE MUNDIAL	C100/I III
11354	W MONDIALE WORLDWIDE MUNDIAL	C100/II V

1	2		page 26	3
13261	V	VAFI		
13264	V	VEUR		
13267	R V	6G VNAT		
13270	M	AFI		
13273	R V	6G VNAT		
13276	V	VNCA VSAM		
13279	V	VPAC		
13282	V R	VSEA 10		
13285	M	AFI EUR MID		CC AFI EUR MID
13288	M R	NAT 6		
13291	M	AFI		
13294	M	CAR SAM EA		CC CAR SAM
13297	M R	CEP CMP NP SP 4		CC CEP CMP NP SP
13300	M	EA NCA		CC EA NCA
13303	M	NAT INO		
13306	M R	EA SEA 13C 13K		CC EA SEA CC 13C 13K
13309	M R	MID 11B 14		

1	2				3
13312	M	NCA	SAT		
13315	M R	SEA 13			
13318	R	2	3		CC 2 3
13321	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/I III
13324	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/I IV
13327	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/II V
13330	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/I III
13333	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/I IV
13336	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/II V
13339	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/I III
13342	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/I IV
13345	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/II V
13348	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/I III
13351	R	5	7		CC 5 7
13354	R	2	SAT		
13357	R	3	13H		

1	2				3
17901	R	12			
17904	M R	CEP 4	CWP NP	SP	CC CEP CWP NP SP
17946	M R	NAT 14			
17907	M	CAR	SAM EA	SEA	CC CC CAR EA SAM SEA
17910	R	10			
17913	R	66	13		
17943	R	6			
17949	R	5			
17952	R	3			
17964	R	2	11B		
17955	M R	SAT 6B			
17958	M	NCA			
17961	M	AFI	EUR INO	MID	CC AFI EUR INO MID
17967	R	5	13A 13B	13E 13F	CC 13A 13B 13E 13F
17916	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/I III
17919	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/II IV
17922	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/I III
17925	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/II V
17928	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/III IV
17931	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/I V
17934	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/II III
17937	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/IV V
17940	W	MONDIALE	WORLDWIDE	MUNDIAL	C100/II III

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 346-E

8 March 1978

Original : English

PLENARY MEETING

MINUTES

OF THE

FOURTH PLENARY MEETING

Monday, 27 February 1978, at 1035 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

Subjects discussed

Document Nos.

1. Progress reports by the Chairmen of
Committees 5, 6 and 7
2. First reading of texts submitted by the
Editorial Committee (Series B.2)

-
245



1. Progress reports by the Chairmen of Committees 5, 6 and 7

1.1 The Chairman of Committee 5 said that the Committee at its sixth meeting had completed its work on the administrative aspects of the revision of Appendix 27 and had considered MWARA, RDARA and VOLMET areas, as well as the requirements of long-distance operational control communications. Although a preliminary reduction of requirements had been envisaged and fed into the computer, the outstanding requirements could not be accommodated in the available part of the spectrum. He therefore renewed his appeal to all delegations to reduce their requirements as far as possible, bearing in mind that the principal objective of the current Conference, that of establishing an Allotment Plan to promote the safety and regularity of flights, could not be attained without such reductions.

The Chairman endorsed that appeal. Unless a practical Allotment Plan could be adopted, delegations would not have honoured the common commitment which had brought them to the Conference.

1.2 The Chairman of Committee 6 said that the Committee had thought it had practically completed its work at the end of the preceding week, but that the decision of Committee 5 not to include the common world-wide frequencies in the Frequency Allotment Plan by Areas (Document No. 248) would entail further deliberations in Committee 6. He hoped that the work could be done at the Committee's sixth meeting that afternoon; if not, a further meeting would have to be held.

1.3 The Chairman of Committee 7 said that the Committee had examined all the texts so far submitted to it by Committees 4, 5 and 6. The Final Acts would have the traditional structure of an Agreement, an Annex containing amendments to the Radio Regulations and Appendices 1, 3 and 27 thereto, an Additional Protocol if necessary and a Final Protocol containing the recommendations and resolutions of the Conference.

2. First reading of texts submitted by the Editorial Committee
(Series B.2) (Document No. 245)

2.1 The Chairman of Committee 7, referring to the fifth paragraph of the introductory section, said that the two sets of square brackets should be removed and that the figure "0001" should be inserted in the space before "GMT". He also drew attention to a few drafting errors and suggested that delegations noticing other mistakes would notify them directly to the Secretariat for transmission to Committee 7.

The Chairman invited the Meeting to consider the document section by section.

2.2 Introductory section - Partial revision of the Radio Regulations

Approved.

2.3 Revision of Appendix 27 to the Radio Regulations - Part I

Section I - Definitions

Approved.

2.4 Section II - A. Channel characteristics and utilization

The Chairman of Committee 4 said that in the French version the sub-title should read "Caractéristiques et utilisation des voies".

2.5 The delegate of the United Kingdom pointed out that the first line of MOD 27/11A was worded differently from the proposal on which the change had been based (Document No. 181).

The Chairman suggested that the provision should begin with the words "On account of the possibility of interference, ...".

It was so agreed.

2.6 The Chairman of Committee 6 pointed out that NOC 27/21 and NOC 27/22 had been omitted from the text.

2.7 The delegate of Algeria observed that the words "dans tous les cas pertinents" in the fourth and fifth lines of the French version of MOD 27/20 did not correspond to the text on which French-language delegations had worked in Committee 6 and which they had approved on the understanding that the term in question should be that of the original provision, namely, "le cas échéant".

The Chairman of Committee 7 pointed out that the text approved in Committee 6 had been based on an English original (Document No. 224).

2.8 The Chairman of Committee 6 said that the new version of No. 27/20 largely restated the original provision in Appendix 27, except for the deletion of the words "for a large part of the world" and the consequential insertion of the word "all" before "appropriate cases".

The delegate of Algeria expressed the view that that substantive change in the French version, which appeared for the first time in the "blue" texts, was unwarranted.

2.9 The delegate of the United Kingdom observed that texts approved in Committee were not inviolate and that to suggest that they were could only serve to undermine the authority of the Editorial Committee to align the different language versions.

The Chairman of Committee 7 added that the terms of reference of the Editorial Committee were clearly set out in No. 527 of the Convention and certainly did not entail the examination of working documents.

The delegate of Switzerland suggested that the phrase might read "dans tous les cas appropriés".

The Deputy Secretary-General pointed out that the Spanish text of Document No. 224 corresponded to the English original.

The delegate of France said that his delegation was fully satisfied with the Editorial Committee's text.

The delegate of Algeria said he would not insist on a change at that stage.

2.10 The delegate of the United States of America, supported by the delegate of the United Kingdom, said that the word "made" should be inserted after "be" in the second line of MOD 27/23.

Section II - A was approved as amended.

2.11 Section II - B. Interference range contours

The Technical Secretary, referring to ADD 27/24F, said that it would be more accurate, in specifying the IFRB text cited as an example, to refer to Document No. 76/11. IFRB seminars on the subject in question would be held every two years, and the Board could ensure that the relevant number would always be 11.

2.12 After a brief discussion, the delegate of Norway proposed that the words after the semi-colon in the last line should read : "Document No. 76/11 or revision thereof".

It was so agreed.

The Chairman of Committee 7 said that the square brackets could be removed from the provision.

2.13 The Technical Secretary said that, in the light of certain decisions by Committee 5 with a view to facilitating its work, the figures for the sharing criteria in ADD 27/31B should be changed, by substituting "3" and "4" for "2" and "3" in the second line and "4" and "6" for "3" and "4" in the fourth line.

The Chairman of Committee 4 said that he had no objection to the adoption of sharing criteria other than those approved by his Committee, in the belief that the decision had been based on statistical data which had uncertain effects on operational conditions. While appreciating that the new criteria would simplify the task of Committee 5, he believed that they might lead to some deterioration of sharing conditions in the 13 MHz and 18 MHz bands.

The new figures for ADD 27/31B were approved.

2.14 The Technical Secretary pointed out that the Note to MOD 27/32 was intended to convey that transparencies were equally applicable for MWARA, RDARA, VOLMET areas and world-wide use.

2.15 The representative of the IFRB observed that references to world-wide use depended on subsequent decisions by Committee 6. It might be advisable to put square brackets round those references wherever they occurred.

It was so agreed.

Section II - B was approved as amended.

2.16 Section II - C. Classes of emission and power

The Chairman of Committee 6 said that the square brackets could be removed from the notes marked with one asterisk to MOD 27/50 and to MOD 27/54, but that the reference in question should be changed to "Resolution Aer2 - E, resolves 5".

The representative of the IFRB observed that the wording of those notes implied that resolves 5 of Resolution Aer2 - E covered the use of double sideband operation only on frequencies 3 023 kHz and 5 680 kHz, whereas that paragraph dealt with all channels. The text as it stood therefore introduced an additional condition, and it would be preferable to replace the words "in accordance with" by "as well as in cases covered by".

It was so agreed.

2.17 The Chairman of Committee 4 said that the text of MOD 27/55 could be simplified by deleting the words in parentheses in the fourth line, which were recognized as redundant by the interested delegations.

Section II - C was approved as amended.

2.18 Section II - D. Limits to the power levels of unwanted emissions

Approved.

2.19 Section II - E. Other technical provisions

The Technical Secretary suggested that ADD 27/72A be reworded to read :
"For aeronautical stations equipped with selective calling systems, the class of emission A2H shall be indicated in Supplementary Information column of the Form of Notice (see Appendix 1 to the Radio Regulations)."

The delegates of Algeria and France endorsed that suggestion, which also applied to the French text.

2.20 The observer for IATA, referring to the same provision, suggested that the words "or other appropriate classes" might be inserted after "A2H", since in his opinion other classes of emission could be used for generic selective calling systems.

The delegate of Norway proposed that that suggestion be approved.

The delegates of the United Kingdom and France said that such a substantive point, which had not been considered in Committee, could not be raised at that stage of the proceedings.

The Chairman noted that there was no support for the Norwegian proposal.

Section II - E was approved as amended.

2.21 Section II - Article 3

The Chairman of Committee 6 said that the title and the references in ADD 27/21⁴ might have to be changed in the light of his Committee's deliberations.

Article 3 was approved on that understanding.

2.22 Final protocol

Approved.

2.23 Recommendation No. Aer2 - CC

The Chairman of Committee 4 said that the Annex to the Recommendation would have to be revised in the light of recent decisions by Committee 5, in particular by inserting references to ADD 27/31A and ADD 27/31B and by mentioning 22 MHz in addition to 18 MHz. He would hand in a text to that effect to Committee 7.

Recommendation No. Aer2 - CC was approved on that understanding.

2.24 Recommendation No. Aer2 - DD

Approved.

2.25 The representative of the IFRB drew attention to the inconsistencies in the description of the 1979 Conference to which the Recommendations were addressed. References were made to the "General Conference, 1979" and the "General World Administrative Conference, 1979". He suggested that the reference should be standardized.

The Deputy Secretary-General said that the title used in the Administrative Council Resolution under which the provisional agenda of that Conference had been agreed by Members of the Union was "World Administrative Radio Conference, 1979". He suggested that that title be used in full throughout the Final Acts.

After a brief discussion, it was so decided.

The second series of texts submitted by the Editorial Committee (Series B.2), as a whole, as amended, was approved on first reading.

The meeting rose at 1220 hours.

The Secretary-General

M. MILI

The Chairman

T.V. SRIRANGAN

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 347-E

9 March 1978

Original : English

PLENARY MEETING

MINUTES

OF THE

FIFTH PLENARY MEETING

Tuesday, 28 February 1978, at 0835 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

Subjects discussed

Document No.

- | | |
|---|-----------------|
| 1. First reading of texts submitted
by the Editorial Committee
(Series B.1 and B.3) | 239 (+235), 246 |
| 2. Second report of Committee 5 | 248 |
| 3. Report of Committee 2 | 250 |
| 4. Report of Committee 3 | 261 |
| 5. Fourth report of Committee 6 | 260 |
| 6. Proposal by Algeria concerning the
French text of MOD 27/20 | 257 |



1. First reading of texts submitted by the Editorial Committee (Series B.1 and B.3) (Documents Nos. 239 (and 235), 246)

1.1 Document No. 239 (Series B.1)

The Chairman said that Document No. 235 should be considered in connection with (MOD) 27/108.

1.2 The Chairman of Committee 7 read out some drafting amendments to Document No. 239, pointing out in particular that :

- in MOD 27/76, the words "or geographical area" should be added after "country" in the first and last lines,
- in MOD 27/121 "Somalia" should be inserted after "Kenya" in the eighth line,
- "27/132A [Pending] " should be inserted after 27/132

The indication "(MOD)" meant that only minor drafting changes had been introduced.

1.3 The delegate of Afghanistan said that his country should be referred to as "the Republic of Afghanistan" in (MOD) 27/121, NOC 27/123 and (MOD) 27/127.

The Chairman invited the Meeting to consider the document section by section.

1.4 Revision of Appendix 27 to the Radio Regulations - Part II - Section I
Description of the Boundaries of the MWARA, RDARA, Sub-RDARA and VOLMET areas

Approved.

1.5 Article 1 - Description of the boundaries of the major world air route areas (MWARAs)

The delegate of Australia, supported by the delegate of Senegal, proposed that the words "INDIAN OCEAN" be deleted from the title of MOD 27/95, in view of the establishment of the new MWARA-INO.

It was so agreed.

Article 1 was approved as amended.

1.6 Article 2 - Description of the boundaries of the regional and domestic air route areas (RDARAs)

The delegate of France said that the square brackets could be removed from MOD 27/106.

1.7 The delegate of the USSR said that he would have no objection to the removal of the square brackets at the end of MOD 27/107.

The delegate of Norway endorsed that remark, adding that approval of the phrase in question would entail consequential changes in (MOD) 27/104, (MOD) 27/110 and (MOD 27/111).

The delegate of the USSR pointed out that the words "and between Norway and the USSR" should be inserted before "to the Baltic Coast" in MOD 27/110 to bring it into line with MOD 27/107.

1.8 The Chairman of Committee 5 said that the addition to (MOD) 27/108 proposed by Turkey and the Syrian Arab Republic in Document No. 235 had been unanimously approved in Committee 5. He therefore proposed that the Plenary Meeting should endorse that insertion.

It was so agreed.

1.9 In reply to a question by the delegate of Senegal concerning the blank space in MOD 27/120, the Chairman of Committee 5 proposed that the appropriate indication should be decided on in his Committee after consultation with the countries concerned.

It was so agreed.

1.10 The delegate of Iran observed that NOC 27/123 should be modified along the lines of the insertion approved for (MOD) 27/108.

1.11 In response to a suggestion by the delegate of Paraguay that the square brackets be removed from the titles of ADD 27/165A and ADD 27/165B, the Chairman of Committee 7 explained that the brackets had been included to draw attention to the non-alphabetical numbering of the two Sub-Areas concerned, which was due to the former sub-division of the area; the numbers of the existing Sub-Areas could not be changed, and it would be illogical from the geographical point of view to place the new provisions after (MOD) 27/173. The square brackets could now be removed.

Article 2 was approved as amended.

1.12 Article 3 - Description of the boundaries of the VOLMET allotment areas and VOLMET reception areas

Approved.

1.13 ADD Resolution Nos. Aer2 - A, Aer2 - B and Aer2 - C

Approved.

1.14 ADD Resolution No. Aer2 - D

The representative of the IFRB observed that the numbers in parentheses at the end of the "resolves" paragraph should be replaced by "(Article 3)".

Approved, as amended.

1.15 ADD Recommendation Nos. Aer2 - AA and Aer2 - BB

Approved.

The first series of texts submitted by the Editorial Committee (Series B.1), as a whole, as amended, was approved on first reading.

1.16 Document No. 246 (Series B.3)

The third series of texts submitted by the Editorial Committee (Series B.3) was approved on first reading, subject to drafting amendments.

2. Second Report of Committee 5 (Document No. 248)

Approved.

3. Report of Committee 2 (Document No. 250)

3.1 The Chairman of Committee 2, introducing the document, said that the credentials of 17 delegations still had to be presented. He drew attention to paragraph 4 of the report, in which Committee 2 recommended the Plenary Meeting to empower the Chairman and Vice-Chairman of the Committee to examine credentials received after the date of the report and to convey their findings to the Plenary Meeting.

The report, with that recommendation, was approved.

The Chairman of Committee 2 announced that Ethiopia and Australia had submitted credentials which had been found to be in order.

3.2 The Chairman congratulated the officers and members of Committee 2 on the expeditious and efficient completion of their task.

4. Report of Committee 3 (Document No. 261)

4.1 The Chairman of Committee 3 introduced the report, drawing special attention to the remaining margin of 122,000 Swiss francs referred to in the last paragraph of point 3.

4.2 The Chairman said that it was most gratifying to see that such a large margin could be obtained without detriment to any essential conference facility. The Committee's report would be forwarded to the ITU Administrative Council through the Secretary-General. Thanks were due to the officers and members of Committee 3 for their rapid and excellent work.

The report was approved.

5. Fourth report of Committee 6 (Document No. 260)

5.1 The Chairman of Committee 6 introduced the report, pointing out that the draft Recommendation in Annex 1, relating to the part to be played by ICAO in the implementation of the new Plan, was based on the course of action recommended at the 1966 Aeronautical Conference and that the draft Recommendation in Annex 2 had been prepared mainly with a view to dispelling the doubts of some Spanish-language delegations concerning the interpretation of a term in No. 429 of the Radio Regulations.

The report was approved.

6. Proposal by Algeria concerning the French text of MOD 27/20
(Document No. 257)

6.1 The delegate of Algeria, referring to the comments made by his delegation during the discussion of MOD 27/20 at the preceding meeting (see the summary record), said that the text now proposed was designed to align the French as closely as possible on the original English. That was particularly important in view of No. 101 of the Convention, which provided that "in case of dispute, the French text shall prevail". The suggestion made by the delegate of Switzerland had been taken into account in the new text.

6.2 The Chairman of Committee 7 said he could accept the Algerian proposal, although he did not agree that the first sentence of that text was the most accurate possible translation of the original English.

The delegate of Algeria said that in any case he considered his text to be closer to the original English than the one approved on first reading.

The delegate of France supported the Algerian proposal.

The proposal was approved.

6.3 The Chairman of Committee 7 said that the relevant document for second reading had already been circulated and that the new text would have to be issued as a corrigendum.

The meeting rose at 0945 hours.

The Secretary-General ;

M. MILI

The Chairman :

T.V. SRIRANGAN

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 348-E

12 May 1978

Original : French

PLENARY MEETING

MINUTES

OF THE

SIXTH PLENARY MEETING

• Tuesday, 28 February 1978, at 1545 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

Subject discussed

Document No.

1. Second reading of the first series of texts
submitted by the Editorial Committee (Series R.1)

262



1. Second reading of the first series of texts submitted by the Editorial Committee (Series R.1) (Document No. 262)

1.1 The Chairman gave a brief introduction to the document to be examined by the Plenary, pointing out that participants would have a final opportunity to review the texts before their final publication. He said that Document No. 262 represented the unanimous opinion of the Conference, with the exception of a few reservations which he would like to see removed if possible in the course of the second reading.

1.2 The Chairman of Committee 7 said that Document No. 262 reproduced the texts in Document No. 245, except for Recommendation No. Aer 2 - CC which had been withdrawn because it still contained a number of square brackets. A corrigendum to Document No. 262 would be published comprising modifications to provisions 27/20, 27/24A, 27/24B, 27/56 and 27/209. Those provisions should therefore be held over pending issue of the said corrigendum. He also indicated various typographical errors in the three language versions and requested delegates who noticed such mistakes to communicate them to him so that the necessary corrections would be made to the new version of the document.

The delegate of Spain said that he had noted several such errors in the Spanish text and would pass them to the Editorial Committee.

1.3 The delegate of Argentina asked for the Spanish text of No. 27/20 which had given rise to much discussion.

The delegate of Spain read out the modified version of No. 27/20 stating that it did not change the meaning and only changes of a drafting nature had been made to make the text clearer.

The delegate of Argentina considered that the Editorial Committee had gone beyond its prerogatives in modifying the text in such a way.

The Chairman recalled that it was the French text which was authentic and assured the Argentinian delegate that the Spanish text would not depart from it. He added that the matter would be taken up again when the corrigendum to Document No. 262 was considered.

1.4 Partial revision of the Radio Regulations, Appendix 27, Part I, Section I

Approved.

1.5 Section II. A. Channel characteristics and utilization

MOD 27/10, MOD 27/11, ADD 27/11A

Approved.

1.6 MOD 27/12

After an exchange of views between the Chairman of Committee 4 and various delegates, the delegate of Mauritius proposed that the words "indicated in 27/16" in MOD 27/12 be replaced by "derived from the frequencies indicated in 27/16".

The proposal was supported by the delegates of France and New Zealand and was adopted.

1.7 SUP 27/13, MOD 27/15 and MOD 27/16

Approved.

1.8 MOD 27/14

The delegate of the German Democratic Republic felt that, to ensure better alignment of the texts, the last line of the provision should read "channels derived from the frequencies indicated in the table".

The Chairman of Committee 7 having no objection, the amendment was adopted.

1.9 ADD 27/16.1

The delegate of Portugal thought that "and 27/72B" should be added at the end of the text.

It was so agreed.

In reply to the delegate of Pakistan, the Chairman of Committee 7 explained that the footnote 1) would appear on the same page as provision 27/16. There were several instances of such a Note throughout the Radio Regulations.

1.10 List of frequencies allotted

Further to a discussion in which the delegates of Mauritius and the United Kingdom and the Chairmen of Committees 4, 5 and 7 took part, it was agreed, on the suggestion of the IFRB representative, to delete the frequencies preceded by an asterisk as well as the note "Guard Band".

1.11 SUP 27/17 - 19, MOD 27/20, NOC 27/21 - 22, MOD 27/23

It was agreed that the above provisions would be examined at a later Plenary meeting; they would therefore be reproduced in their existing form in the revised document.

1.12 B. Interference range contours

MOD 27/24, ADD 27/24A and 24B

The above provisions would also be reproduced unchanged, for examination at a later stage.

1.13 ADD 27/24C, 24D, 24E and 24F

Approved.

1.14 MOD 27/25, MOD 27/26, NOC 27/27 - 29, ADD Title

Approved.

1.15 MOD 27/30

Approved, with a minor correction in the English text and subject to alignment of the Spanish text of the Table to the French version.

1.16 MOD 27/31, ADD 27/31A, 31B and 31C

Approved.

1.17 MOD 27/32

Further to an exchange of views and various suggestions made by the Chairman of Committee 5, the representative of the IFRB and the delegates of the United States of America, Senegal, Switzerland and Canada, it was decided to delete the Note.

1.18 MOD 27/33 - 27/38, NOC 27/39 - 27/48

Approved.

1.19 C. Classes of emission and power

MOD 27/49 - 27/52, SUP 27/53, MOD 27/54 - 27/55, NOC 27/57 - 27/61, MOD 27/62

Approved.

1.20 D. Limits to the power levels of unwanted emissions

MOD 27/63, SUP 27/64

Approved.

1.21 MOD 27/65 and ADD 27/66A

Approved, subject to amendment of the last line to read "in accordance with the table in 27/66" and "in accordance with the table in 27/66B" respectively.

1.22 MOD 27/66

Insert the number 27/66.1 before the Note and in the French text delete the words "de tous les aéronefs" in the first line of the Note.

1.23 ADD 27/66B

Approved, subject to running of the two sentences under the table into one.

1.24 SUP 27/67 - 27/71

Approved.

1.25 E. Other technical provisions

MOD 27/72

Approved.

1.26 ADD 27/72A

The delegate of Sweden, supported by the delegates of Norway, Denmark, Finland and Portugal requested deletion of the mention of "A2H".

The delegate of France, supported by the delegates of Mauritius, the United States of America, the United Kingdom, Senegal and Canada was strongly in favour of its retention.

The delegate of France pointed out that such deletion could have important repercussions on the international level. There were international agreements on the choice of selective calling mode and the whole of the world's aeronautical fleet was fitted with ICAO-standardized receivers. Given the sharing situation, there was considerable risk of there being on the ground installations of special types of equipment which did not meet the requirements of the bodies responsible for standardization of onboard equipment.

The delegate of the USSR concurred with that view and considered that it was essential to maintain mention of "A2H".

The delegate of Australia thought that the term did not have the importance attached to it by the delegate of France and saw no objection to its deletion.

The delegate of Sweden, in view of the discussion, withdrew his proposal.

ADD 27/72A was approved without change.

1.27 ADD 27/72B

Approved.

1.28 MOD 27/73

Following an exchange of views, it was agreed to align the English text on the French.

1.29 Part II, Section II, Article 3

ADD 27/208

Approved.

1.30 ADD 27/209

It was agreed to reconsider the provision at a later meeting.

1.31 ADD 27/210 - 27/213

Approved.

1.32 ADD 27/214

On a proposal by the delegates of New Zealand and Papua New Guinea, supported by the delegates of the United States of America and France, it was decided to amend the first paragraph to read :

"... solely on the upper sideband, except in the cases provided for in No. 27/50",

and to delete the second paragraph.

1.33 Final Protocol

Approved.

1.34 Recommendation No. Aer 2 - DD

Approved.

The first series of texts (R.1) was thus approved, subject to the above amendments, to editorial corrections and to consideration of outstanding provisions at a later stage.

The meeting rose at 1745 hours.

The Secretary-General :

M. MILI

The Chairman :

T.V. SRIRANGAN

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 349-E

12 May 1978

Original : English

MINUTES

OF THE

SEVENTH PLENARY MEETING

Wednesday, 1 March 1978, at 1100 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

Subjects discussed :

Document No.

- | | |
|---|------------|
| 1. Approval of the agenda | |
| 2. Fifth Report of Committee 6 | 294 |
| 3. First series of texts submitted by the Editorial Committee for second reading (Series R.1) | 262(Rev.1) |
| 4. Fourth series of texts submitted by the Editorial Committee for first reading (Series B.4) | 285 |
| 5. Note by the Chairman of Committee 5 | 295 |



1. Approval of the agenda

The Chairman opened the meeting and drew attention to an additional item on the agenda : Document No. 295 from the Chairman of Committee 5.

2. Fifth Report of Committee 6 (Document No. 294)

2.1 The Chairman of Committee 6 introduced the Report.

ADD 27/8A - approved.

2.2 Recommendation AER ...

The delegate of Algeria having pointed out that the French text of recommends 2 was unsatisfactory, it was agreed to request the Editorial Committee to review both French and Spanish texts.

On that understanding, the Recommendation was approved.

3. First series of texts submitted by the Editorial Committee for second reading (Series R.1) (Document No. 262(Rev.1))

3.1 The Chairman of the Editorial Committee explained that the revised document included the amendments decided the previous day and outstanding provisions 27/20, 27/24A, 27/24B, 27/56 and 27/209.

3.2 The Chairman invited delegates to transmit typing corrections or other minor editorial changes directly to the Editorial Committee.

3.3 Introduction

The delegate of Roumania considered that although the wording of the penultimate paragraph ("such notifications of approval as they are received") did not conflict with the terms of the Convention, it might be preferable to follow the wording of Article 42.

The Deputy Secretary-General said that the proposed text was reproduced from that used at the 1966 Aeronautical Conference.

It was agreed to re-word all three language versions to conform to the above-mentioned Article of the Convention.

3.4 ADD 27/16.1 (see para. 3.11 below)

3.5 MOD 27/20 - approved.

3.6 ADD 27/24A. The Chairman of Committee 4 suggested that the words in parentheses be reversed, i.e. "from the aeronautical station to the aircraft"; the delegates of Canada and Australia thought they should be maintained as they stood, and it was pointed out that in any case the Spanish text did not appear to conform to the English and French.

It was finally agreed to reproduce the text as it had originally appeared in Document No. 245, with arrows shown in both directions in the accompanying Figure 1.

- 3.7 ADD 27/24B - approved.
- 3.8 MOD 27/38. (See item 5 below)
- 3.9 MOD 27/56

The Chairman of Committee 6 said that the square brackets should be removed and the words contained in them read "and world-wide allotment areas". The delegate of Cuba pointed out that the Spanish text should be aligned to that of similar provisions.

Approved, as amended.

- 3.10 MOD 27/65

Following discussion on the place and numbering of the table in question, it was agreed that the English text should be re-worded to read "... with the table in No. 27/66", the same amendment applying also to ADD 27/66B.

- 3.11 ADD 27/66C

Despite the earlier decision to run the two sentences under the table into one, it was agreed to keep them separate but to remove the spacing between them.

- 3.12 MOD 27/73

The delegate of Papua New Guinea proposed that MOD 27/73 be restricted to a definition of the assigned frequency, as many stations would continue to use class A3 emissions between 1 September 1979 and 1 February 1983, and even until 1 February 1987 under Resolution Aer2 - E : "1.4 The assigned frequency of a station employing DSB emissions (A3) shall be at the carrier (reference) frequency."

That proposal was seconded by the delegates of Australia, Algeria and Bangladesh and the Chairman of Committee 4.

MOD 27/73 was approved, as amended.

As a consequence, the Chairman of Committee 6 said that the reference to No. 27/73 should be added to 27/16.1.

- 3.13 ADD 27/209

In reply to the delegate of Mauritius who asked whether in practice there was an upper power limit for the aeronautical station (in view of MOD 27/54), the Chairman of Committee 4 explained that the question was covered by No. 27/56.

ADD 27/209 was approved.

Document No. 262, as amended, was approved on second reading.

4. Fourth series of texts submitted by the Editorial Committee for first reading (Series B.4) (Document No. 285)

The Chairman of Committee 7 introduced the document.

4.1 Articles 1 and 2 of Part II, Section II, were approved, subject to correction of the figure 3 024 kHz to 3 023 kHz in provision ADD 27/194A.

4.2 Recommendation No. Aer2 - EE

The Chairman of Committee 6 indicated three corrections : i) the word "high" should be deleted from the title, ii) in considering b) the time of entry into force should be 0001 hours GMT, and iii) in considering e) the words "promulgated by" should be changed to "provided to".

With regard to the title, the delegate of the United States suggested that the title should be made consistent with the wording of similar Resolutions already approved. It was so agreed.

Recommendation No. Aer2 - EE was approved, as amended.

4.3 Recommendation No. Aer2 - FF

The observer from ICAO said that, to be accurate, the reference in considering b) should be to "the Convention on International Civil Aviation".

The delegate of Venezuela, supported by the delegate of Argentina, felt that considering b) could be deleted, as it was unnecessary to refer to a Convention not recognized by the United Nations and the main point of the Recommendation was contained in considering a).

The delegates of the United States, Switzerland, the United Kingdom, France, Australia and Papua New Guinea expressed strong support for the retention of the sub-paragraph in question.

The Recommendation was approved, with the amendment suggested by the observer from ICAO, on the understanding that the Summary Record of the appropriate Committee 6 meeting and the Minutes of the Plenary meeting would be brought to the attention of the 1979 Conference in connection with the item.

4.4 Resolution No. Aer2 - H

Approved.

Document No. 285 was thus approved, as amended, on first reading.

5. Note by the Chairman of Committee 5 (Document No. 295)

5.1 The maps shown in the Annexes to the above document and consequent upon decisions in Committee 4 were introduced by the Chairman of Committee 5. He also pointed out that as a result, No. 27/38 in Document No. 262(Rev.1) could be deleted.

It was so agreed.

Document No. 295 was noted.

The meeting rose at 1310 hrs.

The Secretary-General :

M. MILI

The Chairman :

T.V. SRIRANGAN

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 350-E

12 May 1978

Original : French

PLENARY MEETING

MINUTES

OF THE

EIGHTH PLENARY MEETING

Thursday, 2 March 1978, at 1000 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

Subjects discussed

Document No.

- | | | |
|----|--|-----|
| 1. | Approval of the Minutes of the second Plenary Meeting | 301 |
| 2. | Sixth and last Report of Committee 6 | 315 |
| 3. | Fourth Report of Committee 5 | 321 |
| 4. | Fifth series of texts submitted by the Editorial Committee for first reading (B.5) | 307 |
| | Sixth series of texts submitted by the Editorial Committee for first reading (B.6) | 308 |
| 5. | Second series of texts submitted by the Editorial Committee for second reading (R.2) | 293 |
| 6. | Third series of texts submitted by the Editorial Committee for second reading (R.3) | 309 |
| 7. | Recapitulatory document - texts of statements for inclusion in the Final Protocol | 328 |
| 8. | Credentials | |



1. Approval of the Minutes of the second Plenary Meeting (Document No. 301)

In the last line of point 3.7, the words "by the IFRB" should be deleted. The Minutes of the second Plenary Meeting, as amended, were approved.

2. Sixth and last Report of Committee 6 (Document No. 315)

2.1 The Chairman of Committee 6 introduced the Report and the draft Recommendation it contained, which had been adopted unanimously by the Regulatory Procedures Committee.

2.2 The Chairman thanked the Chairman, Vice-Chairman and Members of Committee 6 for the spirit of cooperation they had shown in order to overcome what had sometimes been considerable differences and arrive at a compromise enabling them to take a unanimous decision.

2.3 The Plenary Meeting took note of the last Report of Committee 6. However, since the text in Document No. 315 had been considered and improved by the Editorial Committee and then published in Document No. 307 (blue), it was agreed that it should be taken up again under Agenda item 4.

3. Fourth Report of Committee 5 (Document No. 321)

3.1 The Chairman of Committee 5 introduced the Report. Annex 1 had been considered by the Editorial Committee; it had already been published in Document No. 307, with minor drafting changes. Annexes 2 and 3 had raised some difficulties in the Committee. There had been very lengthy consultations on them and he wished to thank the Vice-Chairman and the Chairman of Working Group 5A, whose efforts had led to a compromise solution in the Committee, after one last difficulty had been overcome through a display of goodwill by all delegations. Thus MOD 27/128, NOC 27/129 and MOD 27/130 had been adopted unanimously, while ADD 27/132A would be the subject of Corrigendum No. 1 containing the compromise text arrived at in the Committee.

3.2 At the request of the delegate of the Philippines and with the agreement of the delegate of Indonesia, it was agreed to replace "Indonesia" in the eighth line of the first paragraph of ADD 27/132A by "Sumatra".

3.3 The Deputy Secretary-General pointed out that the Plenary Conference had still to take a decision on the proposals by Finland, Norway and Sweden in Document No. 266, concerning Recommendation No. Aer 2-CC, which was referred to in Annex 1 of Document No. 321.

The meeting agreed that due account should be taken of the Deputy Secretary-General's statement.

The meeting took note of the fourth Report of Committee 5. It also agreed that the texts in Annexes 1, 2 and 3 should be considered in the form of blue documents.

3.4 The delegate of the People's Republic of China thanked the Chairman and Vice-Chairman of Committee 5 and members of friendly delegations for the help they had given and the understanding they had shown in efforts to arrive at a solution on the demarcation of Sub-Area 6G. He wished nevertheless to make the following statement :

"The Chinese Delegation regrets that the reasonable proposal by the Chinese Administration on the delineation of the eastern boundary of RDARA Sub-Area 6G with coordinates $32^{\circ}30'N$ $124^{\circ}00'E$, $32^{\circ}30'N$ $126^{\circ}50'E$, $26^{\circ}00'N$ $125^{\circ}00'E$, $25^{\circ}00'N$ $123^{\circ}00'E$ has not been adopted by the Conference. The description of the boundary decided on by the Conference impairs the national interests and domestic flight operations of our country. Therefore, we cannot accept it. The Chinese Delegation declares that it reserves its position on this issue."

3.5 The delegate of the Democratic People's Republic of Korea made the following statement :

"With regard to the description of the boundary of Sub-RDARA 6G, the delegation of the Democratic People's Republic of Korea has made its position clear on several occasions. Yesterday in particular we gave a somewhat detailed account of the problem in question. The main problem in Sub-RDARAs 6G, 6B, 6F which concerns us most is the definition of the boundary line on the western sea between the Democratic People's Republic of Korea and the People's Republic of China.

Until now we have not obtained any results in our endeavours to reach an agreement on the above problem with the country concerned. In respect of the boundary line on the western sea of our country in Sub-RDARAs 6G, 6B, 6F the documents now under discussion do not reflect exactly what is happening in connection with this question.

The delegation of the Democratic People's Republic of Korea does not recognize any boundary line or geographic coordinates which may be decided without its agreement.

We would like to take this opportunity to stress in particular that the geographical coordinates ($39^{\circ}49'41''N$ $124^{\circ}10'06''E$ to $32^{\circ}30'N$ $124^{\circ}E$) are not defined and therefore the boundary line still under discussion remains blank until an agreement is reached. Lastly, the outstanding problem should be solved later between the countries concerned."

3.6 The delegate of Japan thanked the Chairman and Vice-Chairman of Committee 5 for their efforts in preparing and presenting a compromise solution regarding the adjustment of boundaries in RDARA 6. They had worked out an arrangement aimed at accommodating as far as possible the different interests of all parties concerned.

As to the new arrangements proposed for RDARA 6, he could not regard them as ideal or satisfactory. However, his delegation noted that the demarcation of all RDARAs was no more than a convenience devised for the purposes of allotting radio frequencies, on a purely technical and operational basis which was totally unrelated to any other considerations and requirements. He then made the following statement :

"The Japanese delegation, endorsing the letter and spirit of the provisions of No. 27/76 of Appendix 27 to the Radio Regulations, confirms that any delineation or limit of RDARAs, be it RDARA 6 or any other, shall in no way be construed as an expression of the views of the countries concerned on territorial or like matters."

From the observations just made by the delegate of the People's Republic of China on the subject, he had understood that the Chinese delegation intended to file reservations, which were in the process of being printed for circulation.

In view of the considerations he had mentioned, it was totally impossible for him to find any reason for such observations and his delegation could not accept their content. It therefore wished to reserve its right to make counter declarations or reservations later if necessary, in accordance with the prescribed procedure.

3.7 The delegate of the Republic of Korea made the following statement :

"My delegation accepts the proposal on Sub-Area 6G contained on page 5,

Document No. 321, as amended, in a spirit of compromise and in order not to stand in the way of this meeting even though the proposal represents a departure from our basic position on this matter.

In accepting the proposal, however, it is the understanding of the delegation of the Republic of Korea that the said proposal is a purely technical arrangement designed to facilitate aeronautical operations in the region and does not imply any relations other than its technical significance.

We also wish to state our position - and in doing so we believe we reaffirm the position of the ITU - that RDARA boundaries are purely technical conveniences and do not imply delineation of state boundaries.

In concluding its remarks, my delegation reserves the right of my Government to take necessary action on this matter."

He added that the Republic of Korea accepted the text of Annex 3 as contained in Document No. 321, with the most recent amendment to the second paragraph.

The meeting thus concluded its consideration of the fourth Report of Committee 5, of which it took note.

4. Fifth series of texts submitted by the Editorial Committee for first reading
(Series B.5) (Document No. 307)

4.1 Document No. 307

The Chairman of the Editorial Committee stated that Document No. 307 (Series B.5) contained the results of the work of Committee 6, and particularly Recommendation No. Aer 2-HH, together with the information appearing in Document No. 321. The Committee had taken account of the amendments proposed to No. 27/132A concerning Sub-Area 6G.

4.2 ADD 27/8A

The delegate of Venezuela pointed out that the text in the blue document was not the same as the one in Document No. 294, which had been approved by Committee 6. The Spanish version of Document No. 294 read in the last line : "... una aeronave en vuelo por cualquier parte del mundo", whereas Document No. 307 read : "... una aeronave en servicio en cualquier parte del mundo".

In his view the two texts did not mean the same thing at all. The expression "aircraft in flight" was more restrictive than "aircraft operating", because an aircraft that was operating could be on the ground, on the airport tarmac.

The Chairman noted that the English version was exactly the same in the two documents : "..... to aircraft operating anywhere in the world".

4.3 The Chairman of the Editorial Committee said that the words "en service" had been added in the French text to translate the idea of "operating" in the English. The Committee had considered that the Spanish version did not correspond to the English and French versions.

It should be noted that the French text of Document No. 294 read : ".... à destination d'un aéronef, en quelque point du monde où il se trouve". Document No. 307 (blue) read : "... à destination d'un aéronef en service n'importe où dans le monde".

4.4 The delegate of Cameroon considered that the reference should be to aircraft "en vol" rather than "en service".

The delegate of Argentina was also of the view that the phrase should be "en vuelo" rather than "en servicio".

4.5 After a long discussion on the differences of translation between the various language versions, in which the delegates of the United Kingdom, Spain and New Zealand took part, the Deputy Secretary-General pointed out that the differences had already been present in the three language versions of Document No. 252 previously submitted by Japan in English.

4.6 The delegate of Australia referred to the long debate on definition MOD 27/9 in Committee 6 (Document No. 259, points 4.2 to 4.16). He thought that the Conference should settle on the term "in service".

4.7 The observer for IATA, speaking in response to a request by the delegate of Venezuela, explained that in aviation an operating aircraft was a duly registered aircraft operating on any route, particularly away from its home base. The expression applied to any aircraft available for immediate use, i.e. not undergoing maintenance, for example.

4.8 The delegate of Venezuela pointed out that on that basis an operating aircraft could perfectly well be parked at an airport. If that was so, his delegation would have to make a reservation.

4.9 The delegate of France requested that in the organization of future WARCs, particularly the 1979 one, the following suggestion should be considered : texts adopted or discussed in the various technical committees of the Conference should first be dealt with by a small Editorial Sub-Committee before being passed to the Editorial Committee itself, in order to make sure from the beginning that there were no differences of substance in the interpretation of any of the texts submitted.

The Chairman said that the Secretariat would take note of that excellent suggestion.

4.10 Recommendation No. Aer 2-GG

Approved.

4.11 Recommendation No. Aer 2-HH

Approved.

4.12 Text to be included in the Annex to Recommendation No. Aer 2-CC MOD 27/128, NOC 27/129, MOD 27/130 and ADD 27/132A

The Chairman pointed out that the questions referred to in the above provisions were covered by Document No. 321, which had been considered previously in Plenary Session. The Editorial Committee would ensure that the text of the above numbers of Document No. 307 was reproduced on pages 4 and 5 of Document No. 321.

Since the text to be included in the Annex to Recommendation No. Aer 2-CC was not complete and had not been drafted in final form, the delegate of the United Kingdom proposed that consideration should be deferred until the revised version was ready.

It was so decided.

The comments and reservations expressed during the meeting were noted.

Document No. 307, as amended, was approved in first reading.

4.13 Sixth series of texts submitted by the Editorial Committee in first reading (Series B.6) (Document No. 308)

Map I

The Chairman of Committee 5 said that he was satisfied that the lines defining the boundaries traced on that map corresponded to the texts adopted for the definition of the major world routes or of the VOLMET reception areas. During printing, the dotted lines marking the separation between MWARA SAM and SAT had not been reproduced clearly but steps would be taken to put that matter right.

In the absence of other comments, maps II and III and Document No. 308 as a whole were approved.

5. Second series of texts submitted by the Editorial Committee for second reading (Series R.2) (Document No. 293)

5.1 Part II, Section I

Approved up to (MOD) 27/122 inclusive.

5.2 (MOD) 27/123

Following an observation by the delegate of India, the Chairman of Committee 5 explained that as far as No. 27/123 was concerned there was no difference between Appendix 27 as currently worded and the text proposed in Document No. 293. Only the words "Republic of" had been added before "Afghanistan".

The Deputy Secretary-General briefly outlined how consideration of No. 27/123 had been initiated at the Conference. Finally, account had been taken of the request by Afghanistan that whenever that country was referred to it should be designated as "Republic of Afghanistan".

The delegate of Iran fully agreed to the explanations provided by the Deputy Secretary-General.

The Chairman of Committee 5 added that there was still an area of overlap in the eastern part of Turkey, a situation which was reflected in the wording of provision 27/123.

As a result, the text of No. (MOD) 27/123 remained without change.

5.3 (MOD) 27/124 to Resolution No. Aer 2-C

Approved.

5.4 Resolution No. Aer 2-D

In view of certain explanations provided by the Chairman of Committee 7 and the delegate of the United Kingdom, it was decided to maintain only the square brackets in the third line of the text following the words "having noted"; it was understood that the square brackets would be retained as long as the Resolution was in force.

Subject to that modification, the Resolution was approved.

5.5. Recommendation No. Aer 2-AA

Approved.

5.6 Recommendation No. Aer 2-BB

The delegate of New Zealand said that in the English version the word "Administration" under "recommends" and "invites administrations" should be replaced by "Administrative".

It was so agreed.

5.7 In reply to the delegates of Kuwait, Saudi Arabia and the People's Democratic Republic of Yemen, who pointed out that certain amendments still had to be made to Document No. 293 (ADD 27/87A and MOD 27/95), the Deputy Secretary-General explained that the Plenary Meeting had already taken a decision on those provisions and that delegations unable to accept it were free to formulate reservations, which must, however, be presented before the end of the Conference.

Subject to the explanations and modifications referred to, Document No. 293 as a whole was approved.

6. Third series of texts submitted by the Editorial Committee for second reading (Series R.3) (Document No. 309)

6.1 Annex 1

Approved.

6.2 Appendix 1

Following a remark by the Deputy Secretary-General it was agreed that the words enclosed between brackets in the title should be deleted.

6.3 Appendix 3, Resolution No. Aer 2-E, Resolution No. Aer 2-F and Resolution No. Aer 2-G

Approved.

6.4 Section II, Article 1 and Article 2 up to MOD 27/194

Approved.

6.5 ADD 27/194A

In reply to a remark by the delegate of Italy, the Chairman of Committee 7 said that the reference between square brackets was to the table in which the Plan would appear; since the Plan had not yet been published, the square brackets should be retained.

The Chairman said that after approval of the Plan and verification of the figures between square brackets, the Editorial Committee would see to the final presentation of that point.

6.6 Recommendation No. Aer 2-EE, Recommendation No. Aer 2-FF and Resolution No. Aer 2-H

Approved.

6.7 Recommendation No. Aer 2-CC

In reply to a remark by the representative of the IFRB concerning the desirability of deleting the square brackets in the text of the Resolution amending the figures on the basis of Document No. 321, the Chairman of Committee 5 said that his Committee had in fact adopted the new figures of Document No. 321, which, however, had not been approved at the current Plenary Session, so that Recommendation No. Aer 2-CC could not be amended for the time being.

After the Deputy Secretary-General had reminded the meeting that it had been decided to defer consideration of the text, the Recommendation was left in abeyance, to be reconsidered later with its Annex.

6.8 According to the delegate of Norway, supported by the delegate of Denmark, the text of paragraph 1 under "recommends" should be amplified; after the abbreviation "kHz" a few words should be added to the effect that some other equivalent band of the same category of MHz might be allocated.

6.9 The Chairman of Committee 5 said that he was strongly opposed to that amendment on grounds of competence and also because his Committee had examined requirements in the band currently shared by the Aeronautical Fixed Service and the Aeronautical Mobile (R) Service and had found that frequency assignments already existed for long-distance communication stations which were in operation and had been notified. The proposal of Committee 5 was mainly intended to keep to the bands which had been allocated to the Aeronautical Mobile (R) Service and he did not understand the proposal of the delegate of Norway which had been made at a particularly inopportune moment.

6.10 The delegates of the USSR, Australia and France supported the remarks of the Chairman of Committee 5.

6.11 The Chairman, whose views were shared by the delegate of Algeria, pointed out that the question had been discussed at great length in Committee 5 and that the Plenary Meeting had, in blue Document No. 245, approved the text which Norway now suggested for amendment. It would be very unfortunate at the current stage to go back on the decision adopted.

6.12 The delegate of Norway thought that the 1979 Conference would be fully competent to modify frequency allotments made by the current Conference, but in view of the explanations provided and the appeals made to him he agreed to withdraw his proposal.

6.13 The delegate of New Zealand said that in paragraph 2, under "urges Administrations", the word "Administration" in the English version should be replaced by "Administrative".

It was so agreed.

Subject to this minor amendment and to the exclusion of the Annex, Recommendation No. Aer 2-CC was approved.

Document No. 309, as amended, was approved.

7. Recapitulatory document - texts of statements for inclusion in the Final Protocol (Document No. 328)

7.1 The Secretary-General briefly introduced the document and said that the Conference should confine itself to taking note of the declarations listed.

7.2 The delegate of Bangladesh asked that the name of his country should be added to No. 311.

It was so agreed.

7.3 The delegate of the United States of America said that his country associated itself with the declarations contained in Document No. 319 in so far as they concerned the Aeronautical Mobile (R) Service.

8. Credentials

The Chairman of Committee 2 informed the Conference that the Kingdom of Morocco and Qatar had deposited their credentials, which had been examined and found in order.

It was noted that the above two Members were entitled to vote and sign the Final Acts of the Conference.

The meeting rose at 1415 hours.

The Secretary-General :

M. MILI

The Chairman :

T.V. SRIRANGAN

INTERNATIONAL TELECOMMUNICATION UNION
AERONAUTICAL (R) CONFERENCE
(Geneva, 1978)

Document No. 351-E
5 June 1978
Original : English

PLENARY MEETING

MINUTES

OF THE

NINTH PLENARY MEETING

Friday, 3 March 1978, at 0915 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

<u>Subjects discussed</u>	<u>Document No.</u>
1. Approval of the minutes of the Third Meeting	325
2. Corrigendum to the fourth report of Committee 5	Corr.1 to 321
3. Second reading of texts submitted by the Editorial Committee (Series B.5, B.6)	307, 308 + Add.1
4. First reading of texts submitted by the Editorial Committee (Series B.7)	324
5. First reading of ADD 27/8A (Series B.5) (continued)	307
6. Second reading of Series B.7, B.8 and ADD 27/8A (Series B.5)	324, 307
7. Recapitulatory document - texts of statements deposited for inclusion in the Final Protocol (continued)	329
8. Counter-declarations	330, 331
9. Second reading of MOD 27/95, MOD 27/123 (Series R.2)	293
10. Resolution No. Aer2 - E	309
11. Eighth series of texts to be submitted by the Editorial Committee	



1. Approval of the minutes of the Third Meeting (Document No. 325)

Approved.

2. Corrigendum to the fourth report of Committee 5 (Corr.1 to Document No. 321)

2.1 The delegate of Indonesia said that the word "Sumatra" should be substituted for "Indonesia" in the eighth line of the first paragraph of ADD 27/132A.

2.2 The delegate of the Philippines said that his delegation had approached the Conference with the firm conviction that the success of the deliberations could be achieved only through goodwill and cooperation. The delegations of Indonesia, Malaysia, the Philippines, Singapore and Thailand were attending the Conference as a team, bound by common concerns, and had spared no effort to negotiate with other delegations having different interests; they had endeavoured at least to narrow the gap between the different points of view, and now accepted the compromise text of ADD 27/132A; that acceptance emphasized the virtue of friendly consultations conducted in the great, moderate Asian way, of which he would always be proud.

The five delegations on whose behalf he was speaking had taken due note of the standard political disclaimer appended to all documents relating to frequency allotment boundaries. They therefore reserved the right to pursue the protection of their national and regional interests; the door would be kept open for consultations, and it was to be hoped that before 1983 agreement would be reached on how best to serve the interests of all the parties concerned.

The satisfactory solution of a difficult problem was largely due to the wisdom and experience of the Chairman of Committee 5 and to the indefatigable efforts in "shuttle diplomacy" by the Vice-Chairman of that Committee, whose integrity and ability could not be questioned.

The Corrigendum to Document No. 321 was approved as amended.

3. Second reading of texts submitted by the Editorial Committee
(Series B.5, B.6) (Documents Nos. 307, 308 and Add.1)

Series B.5 (Document No. 307)

3.1 The Chairman observed that ADD 27/8A would be considered separately and that the text to be included in the Annex to Recommendation No. Aer2 - CC had not yet been approved by Committee 5, but had been submitted to the Plenary Meeting to obtain a consensus on its presentation.

3.2 The Chairman of Committee 7 said that the consideration of the Corrigendum to Document No. 321 that had just been completed could be regarded as the first reading of ADD 27/132A and that the Indonesian amendment to the first paragraph of that text should be incorporated in Document No. 307 for the second reading.

3.3 The delegate of Japan pointed out that initial capital letters should be used for the term "Sub-Area" in the fourth line of ADD 27/128.

Series B.5 of the texts submitted by the Editorial Committee (Document No. 307), as amended, was approved on second reading.

Series B.6 (Document No. 308 and Add.1)

3.4 The Chairman explained that the Addendum to the document contained maps of RDARAs and improved maps of VOLMET areas.

3.5 The delegate of Japan, supported by the delegates of New Zealand and the United Kingdom, proposed that a further sentence be added to the regular ITU political disclaimer at the foot of all the maps, reading "The map delineates the aeronautical areas for the purpose of radiocommunications in the Aeronautical Mobile (R) Service".

The suggestion by the delegate of Mauritius to insert the word "only", although it added greater precision, gave rise to an exchange of views on the correct place in the phrase.

The basic text above was agreed.

3.6 The delegate of China observed that the delineation of the boundary between Sub-Areas 6F and 6D round the Island of Hainan to the border between China and Viet Nam had been incorrectly drawn in relation to the description in ADD 132A.

The Chairman of Committee 5 and the Deputy Secretary-General explained that the discussions leading to the delineation in question had taken place too late for its incorporation in the document. The necessary correction would be made in the final text.

3.7 The delegate of Japan said that the note "In this vicinity, the limits of Sub-Areas 6B, 6F and 6G are undefined" should appear on the RDARA map, as a recapitulation of the relevant definitions in ADD 27/128, MOD 27/130 and ADD 27/132A.

Series B.6 of the texts submitted by the Editorial Committee (Document No. 308 and Add.1), as amended, was approved on second reading.

4. First reading of texts submitted by the Editorial Committee (Series B.7)
(Document No. 324)

Approved on first reading.

5. First reading of ADD 27/8A (Series B.5)
(Document No. 307)

5.1 The Chairman reminded the Meeting of the difficulties that had been experienced with regard to the definition in Committee 6, largely owing to differences in the three working language versions. He appealed to participants not to repeat their earlier arguments.

5.2 The delegate of Venezuela said he would be prepared to accept the existing text, with the addition of a note reading "In certain countries, communications from landed aircraft may not be permitted". That note took into account the provision of the Preamble to the Convention recognizing the sovereign right of each country to regulate its telecommunications and No. 43 of the Convention, which stipulated that the decisions of administrative conferences must be in conformity with the provisions of the Convention.

The delegates of Brazil, Nigeria, the Yemen Arab Republic and Panama supported that proposal.

5.3 The delegates of Mexico, Uruguay and Ivory Coast said that they could support the Venezuelan proposal, provided the word "operating" in ADD 27/8A was changed to "in flight".

5.4 The delegate of France said he could not support the Venezuelan proposal, since ADD 27/8A was a definition, not an indication of methods of use.

The delegate of the United States of America also objected to the Venezuelan proposal. Utilization of the Radio Regulations was difficult enough without the addition of notes which were not germane to the actual purposes of provisions.

5.5 The delegate of Pakistan proposed that in the third line of ADD 27/8A the word "from" be replaced by "between" and the word "to" by "and".

It was so agreed.

5.6 The delegate of Argentina proposed, as a compromise solution, that the note should read "The type of communication referred to in No. 27/8A may be regulated by certain countries".

The delegate of the United States of America said he could support that text, with the deletion of the word "certain".

The delegate of Australia said that he, too, could accept that text and suggested that the word "countries" be replaced by "Administrations".

The delegate of Argentina accepted those amendments.

The delegates of France, Sweden, Guatemala, Bolivia, Bangladesh, the Federal Republic of Germany, Senegal, China, Italy and Colombia supported the amended Argentina proposal.

The delegate of Venezuela withdrew his proposal.

ADD 27/8A (Series B.5), as amended, together with the footnote, was approved on first reading.

5.7 The delegate of the United States of America said he wished it to be recorded that his delegation had approved the added note on the assumption that it referred to aircraft on the ground, not in any other condition.

5.8 With regard to the presentation of the note in question, it was agreed that there would be a reference in the text, followed by the note numbered 27/8A.1, by analogy with similar notes throughout the Radio Regulations.

6. Second reading of Series B.7 and ADD 27/8A (Series B.5)
(Documents Nos. 324, 307)

6.1 Series B.7 (Document No. 324)

The seventh series of texts submitted by the Editorial Committee (Series B.7) was approved on second reading.

6.2 ADD 27/8A (Series B.5) (Document No. 307)

The Chairman drew attention to the amended text of ADD 27/8A and the related footnote which had been approved on first reading earlier in the meeting.

6.3 The delegate of Italy considered that the Conference should be requested to state whether or not it considered that the provisions of ADD 27/8A applied to aircraft on the ground.

6.4 The delegate of the People's Democratic Republic of Yemen said that his delegation interpreted the text of ADD 27/8A and its footnote as applying to communications between aeronautical stations and aircraft in flight only.

6.5 The delegate of Papua New Guinea felt that the minutes of the meeting should make it clear that the regulation by Administrations referred to in the note related to communications from aircraft on the ground, not to the communications which were the subject of the provision itself.

6.6 The delegate of Uruguay said that his delegation had no objection to such a clarification.

6.7 The Deputy Secretary-General pointed out that the point at issue was whether the Plenary agreed with that interpretation of the note; it would appear that the delegations which had intervened had nearly all spoken along the same lines.

6.8 The delegate of the United Kingdom proposed that it be recorded in the minutes that the Conference interpreted the footnote to ADD 28/8A as relating to aircraft when landed.

6.9 The Chairman said that if he heard no objection he would take it that the interpretation proposed by the delegate of the United Kingdom was acceptable to the Conference.

It was so agreed.

6.10 The delegate of the Yemen Arab Republic said that his Administration considered that the communications referred to in the provision and its footnote related only to aircraft in flight, and had entered a reservation to that effect.

6.11 The Deputy Secretary-General confirmed that a reservation in respect of ADD 27/8A had been received from the delegation of the Yemen Arab Republic. Any other delegations wishing to enter reservations were requested to do so before 1600 hours that day.

ADD 27/8A (Series B.5) was approved on second reading.

7. Recapitulatory document - texts of statements deposited for inclusion in the Final Protocol (continued)
(Document No. 329)

Document No. 329 was noted.

8. Counter-declarations (Documents Nos. 330, 331)

8.1 The delegate of the USSR said that "MF" should be replaced by "HF" in the second line of the third paragraph of his delegation's counter-reservation (Document No. 330).

The counter-declarations of the USSR and Indian delegations (Documents Nos. 330 and 331) were noted.

9. Second reading of MOD 27/95 and (MOD) 27/123 (Series R.2)
(Document No. 293)

9.1 MOD 27/95

The delegate of Kuwait said that following consultations with the other delegations concerned, his delegation wished to maintain its proposal that the coordinate "25°N 52°E" should be deleted from the third line of MOD 27/95 and that the necessary consequential changes should be made in the relevant map.

The proposal was adopted.

MOD 27/95, as amended, was approved on second reading.

9.2 (MOD) 27/123

The Chairman recalled that, following a request by the delegation of Afghanistan to modify the designation of that country, NOC 27/123 (Document No. 239) had become (MOD) 27/123 and, as such, had been approved on first reading at the previous plenary meeting.

9.3 The delegate of Saudi Arabia proposed the deletion of the sentence beginning "Thence along the middle of the Persian Gulf" from the fourth and fifth lines of the boundary description, the insertion of a comma after the coordinate point 30°N 49°E, and the addition of coordinate 27°N 57°E between 26°N 52°E and 24°N 60°E to Bombay.

The delegates of Kuwait, the People's Democratic Republic of Yemen, Libya, the Philippines, Malaysia, Syria, the Yemen Arab Republic, Indonesia, Singapore and Algeria supported the proposal.

9.4 The delegate of Iran said that he could see no valid reason for deleting the phrase in question. However, in order to meet the desire of the Saudi Arabian delegation for greater precision in the boundary description, his delegation could agree to the insertion of the appropriate coordinates after the phrase.

9.5 The delegate of Senegal said that the compromise solution suggested by the delegate of Iran appeared to be a reasonable one from the technical standpoint.

9.6 Following a discussion in which the delegates of Iran, Saudi Arabia, Senegal, the United Kingdom, New Zealand, Argentina and Algeria took part, the Chairman suggested that the decision on (MOD) 27/123 should be deferred in order to give the delegations concerned time to hold consultations with a view to finding a generally acceptable solution.

It was so agreed.

10. Resolution No. Aer2 - E (Document No. 309)

10.1 The delegate of Australia observed that Resolution No. Aer2 - E, and in particular resolves 5, had been drafted before it was known exactly what form the Frequency Allotment Plan would take. It now seemed that the Plan would be constructed in such a way as to render the provisions of resolves 5 unworkable. After explaining the reasons for which he believed that to be so, he proposed that only the first sentence should be retained and that the remainder of the paragraph ("Double-sideband operations as soon as possible.") should be deleted.

10.2 The Chairman of Committee 6 said that the possibility that the Plan might be constructed in a number of different ways had been taken into consideration when Resolution No. Aer2 - E had been drafted. While he sympathized with the Australian delegate's concern, he considered that it would be unwise to tamper with a text which had been discussed at great length in Committee 6 and was the outcome of a compromise which had not been easy to reach.

10.3 The delegates of the USSR, Argentina, Singapore, Canada, Cuba, the United States of America and Norway endorsed the comments by the Chairman of Committee 6 and said that they would prefer the text of resolves 5 to remain as it stood.

10.4 The delegate of the United Kingdom observed that the Resolution had already been approved on second reading; from the constitutional standpoint, therefore, it was doubtful whether any changes could now be made in the text.

10.5 The delegate of Australia considered that a very important technical issue was at stake. In order for the Plan to be viable, he was convinced that a specific date should be set for all Administrations to change to single-sideband operation. It was difficult to believe that the Convention made no provision for dealing with what was an exceptional and serious situation.

10.6 The Secretary-General said that, under No. 531 of the Convention, texts of Final Acts were considered final when they had been approved on second reading. However, there would be nothing to prevent the Conference from deciding to reopen the matter, should it deem that to be necessary in order to deal with an exceptional situation.

10.7 After further discussion, during which it was pointed out that the Australian proposal had not been formally supported, the delegate of Argentina proposed the closure of the debate under No. 475 of the Convention.

The delegate of Australia said that in the circumstances and in order to avoid putting the meeting to the inconvenience of a vote, he would withdraw his proposal.

11. Eighth series of texts to be submitted by the Editorial Committee

11.1 The Chairman of Committee 7 said that the eighth series of texts (Series B.8) was ready for distribution, but that the tables relating to Nos. 27/189 and 27/207A were still incomplete.

11.2 The Secretary-General observed that Series B.8 would have to be approved at the next plenary meeting, whether or not the tables to which the Chairman of Committee 7 had referred were ready for publication at that time.

The Chairman said that if he heard no objection he would take it that the Conference authorized the Chairman of Committee 7 to submit the eighth series of texts without incorporating the missing parts, on the understanding that the tables in question would be approved at a later stage.

It was so agreed.

The meeting rose at 1355 hours.

The Secretary-General :

M. MILI

The Chairman :

T.V. SRIRANGAN

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 352-E

12 May 1978

Original : English

PLENARY MEETING

MINUTES

OF THE

TENTH PLENARY MEETING

Friday, 3 March 1978, at 2105 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

Subjects discussed

Document No.

- | | |
|---|----------|
| 1. Fifth Report of Committee 5 | 333 |
| 2. First reading of texts submitted by the Editorial Committee (Series B.8) | 327 |
| 3. Texts of statements deposited for inclusion in the Final Protocol | 338, 339 |
| 4. Organization of the work of the Conference | - |



1. Fifth Report of Committee 5 (Document No. 333)

The Chairman of Committee 5 said that the document listed the definitions of world-wide allotment areas - a new type of area connected with long-distance operational control communications.

The Report was approved.

2. First reading of texts submitted by the Editorial Committee (Series B.8)
(Document No. 327)

2.1 Annex to Recommendation Aer 2-CC

The Chairman of Committee 7 said that the square brackets round "22 000" could be removed from the changes in the Table of Contents and No. 27/10.

2.2 In response to a suggestion by the delegate of Australia that there might be no need for No. 27/207A, the Chairman of Committee 7 explained that the new table for the 21 924 - 22 000 kHz frequency band, to be submitted by Committee 5, had been assigned the number 27/207A.

The Chairman of Committee 6 added that No. 208 had been assigned to the new Article 3 of Part II, Section II, and that No. 27/207A had been inserted to avoid extensive renumbering and changes in cross-references. The square brackets could be removed from both numbers.

2.3 Speaking as the delegate of New Zealand, he suggested that the Reason at the end of No. 27/16 be deleted, as it seemed to be redundant.

The Chairman of Committee 5 said that the Reason had been inserted for the information of the Special Preparatory Meeting for the 1979 Conference.

The delegate of Papua New Guinea supported the New Zealand suggestion, adding that the Reason was not strictly accurate : the objective of the Conference had been not to leave room for the Aeronautical Fixed Service, but to create an exclusive band for the Aeronautical Mobile (R) Service.

After a brief discussion, the New Zealand suggestion was approved.

2.4 The delegate of India observed that the change in the title of No. 27/31A was inaccurate.

The Technical Secretary endorsed that remark and suggested that the title be amended to include the words "... the frequency bands between 13 MHz and 22 MHz".

The Annex to Recommendation Aer 2-CC, as amended, was approved.

2.5 Part II - Section I - Article 4 - World-wide allotment areas

Approved.

The eighth series of texts submitted by the Editorial Committee (Series B.8), as amended, was approved on first reading.

3. Texts of statements deposited for inclusion in the Final Protocol
(Documents Nos. 338 and 339)

The meeting took note of Documents Nos. 338 and 339.

4. Organization of the work of the Conference

4.1 The Secretary-General outlined a tentative schedule for the final stages of the Conference.

4.2 The delegate of Canada asked for an explanation of the delay in the production of the Plan.

4.3 The Technical Secretary said that the mock-up produced by the computer had included some illegible entries, particularly with respect to geographical and power restrictions, which the IFRB Secretariat had had to transcribe manually. In addition, the Chairman of Committee 5 had asked for a computer program showing adjacent channels; that had taken some time to prepare, and a check had had to be made to ensure that the content of the fourth draft Plan accurately represented the data received from delegations.

4.4 After some discussion of possible ways of saving further time, the delegate of the United States of America said she wished to express her delegation's profound concern at the continuous delays in the production of Plan documents. Technical problems no doubt existed, but the Conference had been at the planning stage for some time, and should not now be as far behind schedule as it was.

The meeting rose at 2210 hours.

The Secretary-General :

M. MILI

The Chairman :

T.V. SRIRANGAN

INTERNATIONAL TELECOMMUNICATION UNION
AERONAUTICAL (R) CONFERENCE
(Geneva, 1978)

Document No. 353-E
12 May 1978
Original : English

MINUTES
OF THE
ELEVENTH PLENARY MEETING

Saturday, 4 March 1978, at 1610 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

Subjects discussed

Document No.

- | | |
|---|----------|
| 1. Second reading of Annex to
Recommendation Aer 2 - CC (B.8) | 327, 344 |
| 2. Recommendation Aer 2 and second reading
of (MOD) 27/123 (R.2) | 342, 293 |
| 3. Final Protocol | 343, 323 |
| 4. Counter reservations | 334, 336 |
| 5. Timing of the final stages of the
Conference's work | - |



1. Second reading of Annex to Recommendation Aer 2 - CC (Series B.8)
(Documents Nos. 327, 344)

1.1 The Chairman reminded the meeting that it had agreed with the decision of Committee 5 regarding the inclusion in the Plan of frequency allotments for long distance operational control communications. Committee 5, as a result, had submitted Document No. 344 listing those frequencies which were to be inserted in Nos. 27/189 and 27/207A.

1.2 The Chairman of the Editorial Committee assured all delegations that the editorial changes and other corrections already indicated or brought to his attention at the present meeting would be taken into account when the contents of Document No. 344 were inserted appropriately into the provisions in Document No. 327.

Document No. 344 was noted.

1.3 Annex to Recommendation Aer 2 - CC

Approved.

1.4 Article 5 and Article 4 (with the contents of Document No. 344 incorporated) were approved.

The outstanding texts in Series B.8 were thus approved on second reading.

2. Recommendation Aer 2 (re 27/123) and second reading of (MOD) 27/123 (Series R.2)
(Documents Nos. 342, 293)

2.1 The Chairman introduced the Recommendation in Document No. 342, recalling that the parties in question had been asked to hold consultations and submit an agreed solution; they had in fact agreed to pursue their consultations so that a decision was no longer required from the present Plenary meeting. It had been felt that a Recommendation from the present Conference to the World Administrative Radio Conference, 1979, was the most appropriate way of dealing with the situation. He wished to record his own appreciation to the delegations concerned for reaching that decision.

2.2 The delegate of Iran said that the Chairman's introduction reflected the fact that the consultations had been conducted in the spirit recommended by the Plenary meeting. His understanding of the outcome was that MOD 27/123 concerning Sub-Area 5B would be accepted as it stood in the final document, with the Recommendation as an addition.

2.3 The delegate of the Federal Republic of Germany pointed out that the 1979 Conference would deal with all Recommendations and Resolutions addressed to it by special conferences. He thought that the wording might give rise to doubts as to whether the Recommendation in question was directed to the Conference itself or to Administrations.

The Deputy Secretary-General thought the Recommendation was perfectly in order, and could be examined under item 2.9 of the Agenda of the 1979 Conference.

2.4 The Chairman of the Editorial Committee said that minor changes would be required to the Recommendation (to be numbered Aer 2 - II) and would be made by the Editorial Committee.

2.5 The Chairman said that he would take it that approval of the Recommendation at the present stage constituted both first and second reading of the text.

It was so agreed.

2.6 The Deputy Secretary-General and several delegates thought that the reference should be to (MOD) 27/123, in line with the other texts approved in Plenary; the delegate of the United Kingdom said that as no change of substance was involved, merely a change in the official name of one Administration, the reference to 27/123 was correct. On the point raised by the Deputy Secretary-General, it was agreed that throughout the Final Acts all the symbols should be reproduced, with an explanation of the difference between MOD and (MOD).

2.7 The Chairman suggested that as the question obviously required further study, it be discussed outside the meeting by the Secretary-General, the Deputy Secretary-General, the delegate of the United Kingdom, the Chairman of the Editorial Committee and himself.

It was so agreed.

On that understanding, (MOD) 27/123 was approved on second reading and Recommendation Aer 2 - II was approved on first and second reading.

3. Final Protocols (Documents Nos. 343, 323)

3.1 The meeting took note of the Final Protocol submitted by the Kingdom of Saudi Arabia in Document No. 343.

3.2 The delegate of China said that his delegation wished to withdraw the third paragraph of the Final Protocol in Document No. 323.

The meeting noted that withdrawal.

4. Counter-reservations (Documents Nos. 334, 336)

4.1 The delegate of Japan said that in view of that statement by the delegate of China, his own delegation withdrew paragraph 2 in Document No. 334 which was no longer necessary.

The meeting took note of that deletion.

4.2 The delegate of the Republic of Korea said that in the light of the withdrawal of a paragraph in Document No. 323, the reference to paragraph 3 of that document in Document No. 336 should be deleted.

The deletion of that reference was noted.

4.3 The delegate of China said that his delegation did not recognize the counter-reservation in Document No. 336.

5. Timing of the final stages of the Conference's work

5.1 The delegate of the United Kingdom suggested that the next Plenary meeting should be held immediately after the completion of Committee 5's work, at which meeting the Plan would be submitted for first and second reading.

5.2 The Secretary-General explained that approximately three hours would be required for issue of the Plan from the time when the Working Group of Committee 5 ended. After Committee 5 had examined the Plan, and possibly made changes to it, a further two hours would be required to publish a corrigendum. However, if delegates were prepared to read the Plan with corrections inserted manually, the Plenary meeting could follow Committee 5 almost immediately, and the signature of the Final Acts (one copy per delegation) could in turn follow the Plenary meeting after a very short break. It was understood that revised and corrected copies would be distributed to Administrations some two or three weeks after the end of the Conference.

The meeting rose at 1740 hours.

The Secretary-General :

M. MILI

The Chairman :

T.V. SRIRANGAN

PLENARY MEETING

MINUTES

OF THE

TWELFTH AND LAST PLENARY MEETING

Sunday, 5 March 1978, at 0240 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

Subjects discussed :

Document No.

1. First reading of the fifth draft Plan
2. Second reading of the fifth draft Plan
3. Closing statements

345

345

-



1. First reading of the fifth draft Plan (Document No. 345)

1.1 The Chairman drew attention to the fifth draft Plan (Document No. 345), which had been amended and approved by Committee 5 at the meeting immediately preceding the present Plenary Meeting. As printing and reproduction of the Corrigendum had not yet been completed, he suggested that the first reading should be carried out on the basis of Document No. 345 corrected in hand-written form by delegations themselves. In order to avoid any possibility of error, the Technical Secretary would indicate each correction at the appropriate time.

It was so agreed.

1.2 Column headings and explanation of symbols and abbreviations (page 2)

Approved.

1.3 3 MHz band (pages 3 to 6)

Approved.

1.4 3.5 MHz band (pages 7 and 8)

Approved.

1.5 4.7 MHz band (page 9)

Approved.

1.6 5.4 MHz band (page 10)

Approved.

1.7 5.6 MHz band (pages 11 to 14)

Approved.

1.8 6.6 MHz band (pages 15 to 17)

Approved.

1.9 9 MHz band (pages 18 to 20)

Approved.

1.10 10 MHz band (pages 21 and 22)

Approved.

1.11 11.3 MHz band (pages 23 to 25)

Approved.

1.12 13.3 MHz band (pages 26 and 27)

Approved.

1.13 18 MHz band (page 28)

Following a discussion in which the delegates of the United States of America, Sweden, Japan, the United Kingdom, Australia and Algeria took part, the delegate of New Zealand proposed that frequency 17 901, which Committee 5 had decided to leave free, should be reallocated to RDARA-12 as had originally been the case.

It was so decided.

The 18 MHz band, as amended, was approved.

The fifth draft Plan (Document No. 345) as a whole, as amended, was approved on first reading.

1.14 The Chairman drew attention to the fact that the Addendum to Document No. 345 containing the information appearing in the fifth draft Plan arranged by aeronautical area for inclusion under No. 27/189 was not yet available. If he heard no objection he would take it that the Conference could agree to consider that the Addendum had been approved on first reading, on the understanding that all the corrections made to Document No. 345 would be incorporated in it.

It was so agreed.

1.15 The Vice-Chairman of Committee 5 drew attention to the fact that the Addendum to Document No. 345 did not contain a table indicating the frequencies allotted to world-wide areas. He proposed that such a table should be prepared by the Secretariat and added at a later stage.

It was so agreed.

2. Second reading of the fifth draft Plan

2.1 The Chairman reminded delegates that it had been agreed that all corrections would be incorporated by the Secretariat and that a completely updated copy of the Plan in line with the decisions taken in the Plenary would be sent to Administrations in due course. However, to conform to the Convention, all texts included in the Final Acts had to be read twice in Plenary.

He therefore submitted the Plan for second reading.

The fifth draft Plan as a whole, as amended, as approved on second reading.

3. Closing statements

3.1 The Chairman made the statement reproduced in the Annex hereto.

3.2 The delegate of the United Kingdom said that all delegations present owed a debt of gratitude to the Chairman for taking upon himself the onerous task of guiding what had proved a very difficult Conference. At the outset, he himself had not believed it possible to produce a viable Plan but throughout the Conference the Chairman's confidence and efficiency had been evident both in his presence as Chairman of the Plenary meetings and the Steering Committee and in his activities behind the scene. The delegations had enjoyed working under the Chairman's able guidance and were all gratified at the Conference's success.

3.3 The Chairman declared the Conference closed.

The meeting rose at 0410 hours.

The Secretary-General :

M. MILI

The Chairman :

T.V. SRIRANGAN

Annex : 1

A N N E X

Concluding Speech by the Chairman of the Conference

Distinguished Delegates, Ladies and Gentlemen,

We have come to the end of our deliberations. During the past four weeks, we have worked together, wrestled with several problems, agreed on many things and differed on some. The Delegates, the general and technical secretariats and many others have laboured hard to fulfil a common commitment. In retrospect, we have good reasons to feel satisfied with the final outcome of our shared efforts and we are about to set our seal of approval to the Final Acts of the World Administrative Radio Conference, Aeronautical Mobile (R) Service, Geneva, 1978.

Even at the outset, it was clear that the success of the Conference would be judged by the way it would respond to the three principal tasks confronting it, namely, the revision of Appendix 27 to enable introduction of SSB working, inclusive of the revised frequency allotment plan, the formulation of adequate procedure for transition from DSB to SSB and the frequency allotments for long distance operation control. It was foreseen that each of these tasks would generate considerable debate, differing approaches and possibly, at least in regard to some elements, strongly opposing trends.

Against this backdrop, let me dwell but briefly on the extent to which the Conference fulfilled these tasks. The revised Appendix 27, including the allotment plans, as it was finally adopted by the Conference represents a near unanimous agreement. This in spite of the fact that in the initial stages and, in some cases, almost until the end of the Conference, there were many hurdles. The provisions in respect of the transitional arrangements also represent a happy consensus. Frequency allotments for long distance operational control seemed riddled with problems at every stage, and yet finally it has found general acceptance. There can be no better tribute to the spirit of international understanding, cooperation and goodwill that pervaded the halls and corridors of this Conference than these achievements.

Every participant at this Conference has contributed his or her very best and has a share in the pride and pleasure of these achievements. The Conference demanded considerable technical, organizational, administrative and secretarial support and skills and many hundreds of persons have contributed in providing them. May I, on my own behalf and on behalf of the Conference, say thank you to every one of them. But permit me to refer particularly to some individuals and organizations more intimately involved in the preparation and progress of this Conference.

Let me in the first instance thank all the delegates from the 92 Member countries of the Union who through their participation and sincere endeavours gave strength, distinction and solidarity to the work and outcome of this Conference.

On the opening day you had, apart from electing me as your Chairman, adopted a committee structure to enable smooth and satisfactory progress of the Conference. You had chosen six Vice-Chairmen of the Conference and also appointed the Chairmen and Vice-Chairmen for the six Committees that you set up to constitute this structure. The Conference Vice-Chairmen, Mr. Bouhired, Mr. Hermano Balduino, Mr. Wang, Mr. Petti,

Mr. Badalov and Mrs. Dillon have been a source of great strength to the Conference. Their wise counsel and support have meant a great deal to me and thanks to their understanding and advice many difficult situations have been overcome. I am grateful to all of them. I wish to express my appreciation and thanks to Mr. Martinez, Chairman, and Mr. Grimstveit, Vice-Chairman of Committee 2, which took on the responsibility for verifying the credentials of the delegations and making appropriate recommendations to the Conference; to Mr. Dione and Mr. Hakimian, Chairman and Vice-Chairman of Committee 3, which with such great care directed the management of the budget credits and was able to achieve economies; to Dr. Kovacs and Mr. Inoma, Chairman and Vice-Chairman of Technical Committee 4 and to Mr. Blaker and Mr. Müller, Chairmen of the Working Groups set up by this Committee, who together so efficiently completed the tasks assigned to them; to Mr. Chef and Mr. Ducharme, Chairman and Vice-Chairman of Committee 5 and Mr. King and Mr. Young who chaired two of its Working Groups. As you are aware this Committee had till the end of the Conference a very challenging task and I would like to make a special mention of the super efforts of Mr. Chef as Chairman of this Committee; to Mr. Bundle and Mr. Kupczyk, Chairman and Vice-Chairman of Committee 6 and Mr. Olms and Mr. Urbany who headed the Working Groups and who together contributed so much towards the satisfactory finalization of the many difficult and controversial issues with which the Committee had to deal; to Mr. Dhenin, Mr. Valbuena Granados and Mr. Baptiste, Chairman and Vice-Chairmen of the Editorial Committee, who had the very exacting task of editing the final texts and ensuring their concordance in all the three working languages of the Union. To all these gentlemen I wish to express my appreciation and grateful thanks for the excellent work done by them and their Committees.

The Delegates would have noticed how smoothly the conference machinery moved. I think, in a way, it is the invisibility of the set up, but the visibility of the service which is a true index of efficiency. As you are well aware, there was considerable work put in by the secretariats of the concerned permanent organs of the Union prior to and during the Conference to ensure the smooth progress of the Conference from all angles. For this I would like to pay a special tribute to Mr. Mili, Secretary-General and Secretary of this Conference and to Mr. Butler, Deputy Secretary-General. Their wisdom and counsel helped steer the Conference to a successful end, I would also like to express my appreciation to their staff; to the Chairman and members of the IFRB and its secretariat who toiled so hard in working out the new allotment plan and the related regulatory matters and to the Director of CCIR and his secretariat and to the work of CCIR Study Group 8, through whose labours many of the technical criteria for the work of this Conference were established. In their work, the Conference as well as its various Committees have leaned heavily on the experience and competence of many persons from the Union's Secretariat. I would like to take this opportunity to thank Mr. Winter-Jensen and Mr. Brooks, Executive Secretary and Technical Secretary of the Conference, Mr. Zaccagnini, Secretary of the Plenary Meetings, Mr. Prélaz, Secretary of Committee 3, Mr. Sonesson, Secretary of Committee 4, Mr. Sant, Secretary of Committee 5, and how hard he has worked as Mr. Chef has already mentioned to you, Mr. Ahmad, Secretary of Committee 6, Mr. Macheret, Secretary of Committee 7, and Mr. Petignat, the Administrative Secretary. Their contribution to the work of this Conference has been so evident to all of you. My thanks are also due to all those engaged on conference work in the documentation centre, general administrative and secretarial arrangements, the computer centre and, of course, all those who manned the telecommunication desk and enabled the delegates to be in touch with their homes and Administrations. As always, the interpreters have played a vital and commendable role. Without them no understanding could possibly be reached in an international conference. I would like to express my appreciation of their assistance.

I would like to mention specially the contribution of ICAO and IATA to this Conference. As you know, the work of the communication division of ICAO constituted a very important input to this Conference. I wish to thank these organizations for their participation, assistance and cooperation.

It has been an exciting, exhilarating and often elevating experience for me to have served you as your Chairman. I have learned a great deal from the fund of wisdom, knowledge and experience of the delegates participating in this Conference. It has been my good fortune to have received your understanding, support and cooperation. If at all, in some small way, I have contributed to this Conference, it is only because of the unstinted support I got from all of you. Here, I cannot but recall what I read several decades back as a school boy - "If one is able to see farther, it is only because one stands on someone else's shoulders". I can only say that I had the benefit of the shoulders of all of you.

When, four weeks ago, you chose to appoint me as your Chairman, to repose your faith and confidence in me and invested me with a responsibility for which, perhaps, I was not adequately equipped, I accepted it in all humility, for, I somehow felt that I would receive throughout the Conference your total support and sympathy. Looking back, I must say that, on your part, you have given these to me. On my part I have tried sincerely to deserve your confidence and, in some measure at least, the honour you did me in asking me to be your Chairman.

I have endeavoured to the best of my ability to honour and maintain the great traditions of Chairmen of past ITU Conferences. I have also endeavoured to guard the interests of all delegations and to ensure full opportunity to them for expressing their views and participating in the discussions. If at any time I have sounded, inadvertently or unwittingly, abrasive or appeared to be rushing things through, I can only seek your pardon. But I would like to assure you that at all times I was motivated solely by my desire that the tasks of this Conference must be accomplished successfully and within the allotted time.

On the opening day, after being chosen as your Chairman, I had expressed the hope that the spirit of goodwill and international understanding would animate this Conference. This hope has been fully substantiated. I had also mentioned that perhaps my choice as your Chairman was an index of the recognition of the increasing and important role which developing countries have begun to play in the furtherance of the objectives of the Union. May I express the hope that this Conference is but a beginning in terms of the growingly responsive and responsible contribution that developing countries could and would play in coming years and the recognition they would evoke.

These concluding moments of this Conference will linger long in my memory. I will cherish for many years to come the experience of this Conference and the fund of goodwill I received from you. May I take this opportunity to wish all of you present here the best of success in your professional and personal endeavours. May I also wish a safe and happy return to all the delegates who will be going back to the warmth and comfort of their families and homes. It has been a great privilege knowing you, working with you and learning a great deal from each one of you. I am most grateful to all of you. Before closing, I would like once again, to thank Mr. Mili and Mr. Butler, without whose advice and assistance, I would indeed have found it very difficult to discharge my duties as Chairman. So long then till we meet again, some time, somewhere.

Thank you all.

INTERNATIONAL TELECOMMUNICATION UNION
AERONAUTICAL (R) CONFERENCE
(Geneva, 1978)

Document No. 355-E
12 May 1978
Original : English

PLENARY MEETING

SIGNATURE OF THE FINAL ACTS
OF THE CONFERENCE

Sunday, 5 March 1978, at 0430 hrs

Chairman : Mr. T.V. SRIRANGAN (India)

Signature of the Final Acts

The Secretary-General explained the procedure for signature of the Final Acts and then called the roll of those delegations whose credentials had been found in order by the Plenary meeting.

The following delegations signed the Agreement and the Final Protocol :

Republic of Afghanistan, Algerian Democratic and Popular Republic, Federal Republic of Germany, People's Republic of Angola, Kingdom of Saudi Arabia, Argentine Republic, Australia, State of Bahrain, People's Republic of Bangladesh, Belgium, Byelorussian Soviet Socialist Republic, Republic of Bolivia, Federative Republic of Brazil, People's Republic of Bulgaria, United Republic of Cameroon, Canada, Chile, People's Republic of China, Republic of Colombia, Republic of Korea, Republic of the Ivory Coast, Cuba, Denmark, United Arab Emirates, Ecuador, Spain, United States of America, Ethiopia, Finland, France, Gabon Republic, Greece, Republic of Guatemala, Republic of Guinea, Republic of Upper Volta, Hungarian People's Republic, Republic of India, Republic of Indonesia, Iran, Ireland, Italy, Japan, Republic of Kenya, State of Kuwait, Republic of Liberia, Libya (Socialist People's Libyan Arab Jamahiriya), Malaysia, Kingdom of Morocco, Mauritius, Islamic Republic of Mauritania, Mexico, Federal Republic of Nigeria, Norway, New Zealand, Islamic Republic of Pakistan, Republic of Panama, Papua New Guinea, Republic of Paraguay, Kingdom of the Netherlands, Republic of the Philippines, People's Republic of Poland, Portugal, State of Qatar, Syrian Arab Republic, German Democratic Republic, Democratic People's Republic of Korea, Ukrainian Soviet Socialist Republic, Socialist Republic of Roumania, United Kingdom of Great Britain and Northern Ireland, Democratic Republic of Sao Tome and Principe, Republic of the Senegal, Republic of Singapore, Sweden, Confederation of Switzerland, United Republic of Tanzania, Czechoslovak Socialist Republic, Thailand, Union of Soviet Socialist Republics, Oriental Republic of Uruguay, Republic of Venezuela, Yemen Arab Republic, People's Democratic Republic of Yemen, Socialist Federal Republic of Yugoslavia.



The Secretary-General announced that 83 countries had signed the Agreement and the Final Protocol.

The meeting rose at 0500 hours.

The Secretary-General :

M. MILI

The Chairman :

T.V. SRIRANGAN

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 356-E

3 May 1978

Original : English

COMMITTEE 5

SUMMARY RECORD

OF THE

EIGHTH MEETING OF COMMITTEE 5

(PLANNING)

Wednesday, 1 March 1978 at 1505 hrs

Chairman : Mr. M. CHEF (France)

Subjects discussed

Documents Nos.

1. Approval of the Summary Record of the fifth meeting

292

2. Report by Working Group 5B

DT/56

3. Report by Working Group 5A

DT/57, DT/58, DT/59

4. Consideration of the Second Draft Plan

266, DT/52



1. Approval of the Summary Record of the fifth meeting (Document No. 292)

The delegate of Argentina said that paragraph 6.14 of the document did not exactly reflect his suggestion. The last phrase should read : "... suggested that Administrations should prepare new requirements, with a comparative table showing the allotments of the existing Appendix 27 and the foreseeable needs for the coming 10 years".

The summary record of the fifth meeting, as amended, was adopted.

2. Report by Working Group 5B (Document No. DT/56)

2.1 The Chairman recalled that an Ad Hoc Group had been nominated at the Committee's sixth meeting to consider additions to the Annex to Recommendation No. D in Document No. 224.

2.2 The Chairman of the Ad Hoc Group explained that the approach had been to suggest an exclusive band extending to 22 000 kHz, with the 3 kHz frequency separation used in other bands, and with the carrier (reference) frequency being an integral multiplier of 1 kHz. The only points at issue were how the frequency table should be made and the number of channels. Although there had been requests for some 18 channels in the 22 MHz band for long-distance operational control communications, the proposed table (MOD 27/16) suggested 25 channels, in view of inputs from some delegates for allotments for purposes other than long-distance operational control. Article 5 of the Radio Regulations required amendment, and there had been a suggestion that the group of channels in the higher part of the shared band 21 870-22 000 MHz should be allotted to the Aeronautical Mobile (R) Service to leave room for the Aeronautical Fixed Service in the lower part.

2.3 The delegate of the Union of Soviet Socialist Republics was of the opinion that the reference to the radio astronomy service in the footnote on page 2 of the document should be deleted, since it went beyond the terms of reference of the Conference.

The Chairman supported that view, and proposed that the sentence should end after "Fixed Services".

It was so agreed.

2.4 The delegate of Sweden proposed that the table should be put into square brackets until it could be seen from the new Plan the number of channels actually needed.

The Chairman replied that in assessing the number of channels, account had been taken of the proposals contained in Documents Nos. 252 and 266, and that square brackets might cause the Editorial Committee certain difficulties. The figure should stay at 25 and Administrations could draw their own conclusions.

2.5 The delegate of Norway proposed that the footnote on page 2 should contain an additional sentence, to the effect that if the 1979 Conference could not provide the number of channels stated, it should make provision for an equal number of channels in some other band in that part of the spectrum.

2.6 The Chairman, supported by the delegate of Australia, said that that proposal would be more suitably contained in the Recommendation itself which, having been drafted and approved by Committee 6 and then approved by the Plenary, could not at that stage be changed.

Document No. DT/56, as amended, was approved.

3. Report by Working Group 5A (Document Nos. DT/57, DT/58, DT/59)

3.1 The Chairman said that ADD 132A in Document No. DT/59 should be deleted as it appeared in Document No. DT/57. Document No. DT/54 had already been adopted, and the summary record of the seventh meeting of the Committee would include reservations by two delegations.

3.2 The Vice-Chairman, in his capacity as Chairman of Working Group 5A, introducing the documents, said that the results of the extensive discussions held with those delegations interested in establishing the limits of Sub-RDARA 6 were contained in Documents Nos. DT/54, DT/57 and DT/59. The compromise solution accommodated the technical requirements for the new Plan and various proposals related to areas. There had been no complete agreement, but declarations from particular Administrations were not expected to hinder the development of the Plan.

In Document No. DT/59 the description of Sub-Area 6F was incorrect, being essentially that of Sub-Area 6F in the provisional map approved in Document No. 165. The description of 6G would be a consolidation of the information contained in Documents Nos. DT/54 and DT/57.

The map included in Document No. DT/57 was intended to cover the entire area as first proposed, with the addition of the area defined as 6G in the existing Appendix, including the extension of 6G outlined in Documents Nos. 55 and 85. In response to concern voiced by various delegations, paragraph 2 of the document made it clear that the frequencies initially allotted to 6G would not be used by Administrations primarily located in the area common to 6D, 6F and 6G; frequencies allotted to 6D and 6F would not be used by the People's Republic of China; the second half of the paragraph identified the likely area of operation of flights by the People's Republic of China in the common area.

3.3 Document No. DT/57

The delegates of Afghanistan, Pakistan and Senegal supported the document.

The delegates of Rumania and Yugoslavia supported the document as a basis for continued negotiation.

3.4 The delegate of the Philippines supported by the delegates of Indonesia, Kuwait, Malaysia, Saudi Arabia, Singapore and Thailand, proposed that the last sentence of the second paragraph should be deleted.

The delegate of Australia said that he was unable to support that proposal. If the last sentence in the second paragraph were deleted, it could have the effect of not offering the protection the Draft Plan had provided for allotments to Sub-RDARA 6G and RDARA 14.

3.5 The delegate of the People's Republic of China said that his Administration had proposed the creation of 6G to meet its domestic flight requirements, and had put forward specific coordinates in Document No. 53. While he fully agreed with 6D and 6F, he felt that the extension of 6G was not appropriate, and had reservations in that connection. In a spirit of cooperation, however, he did not object to the proposals contained in Document No. DT/57. The proposed deletion of the last sentence would jeopardize the original concept of 6G. His Administration's position as regards the eastern boundary, however, remained unchanged.

3.6 The delegate of the Democratic People's Republic of Korea said that the geographical coordinates and boundary description contained in Documents Nos. DT/57 and DT/59 did not accurately reflect his Administration's position, which had been stated clearly throughout the Conference. He wished to delete the line drawn on the Western Sea of his country, and suggested that the boundary should be left broken as in the case of other disputed areas. As he understood it, a boundary line could not be drawn up in the absence of agreement between the countries concerned, and the boundary line on his country's Western Sea, as shown in Documents Nos. DT/57 and DT/59 had been drawn up without his delegation's agreement. He wished it to be clear that his Administration did not recognize any geographical coordinates or boundary lines that might have been decided unilaterally.

The Chairman replied that the boundaries shown in Document No. DT/59 were the result of a compromise and the Committee could only note the reservations made by the Democratic People's Republic of Korea.

3.7 The delegate of Australia said that his earlier statement had been prompted not out of national interest, but by technical and operational considerations and because of the fact that without the last sentence in paragraph 2 of the document, the Plan would be impossible, since the sharing arrangements between Sub-RDARAs in the general region, namely RDARAs 6, 9 and 14, were based on the fact that there would be limits, through the description, applying to the frequency allotments for 6G. Without those restrictions, the whole of the 6G allotment area would need to be protected to the outer limits described in Document No. DT/57, and shared frequencies could not continue to be shared on account of the protection criteria. That would lead to even greater difficulties in accommodating the total frequency requirements.

3.8 The delegate of Algeria endorsed that statement.

3.9 The delegate of Japan asked whether China's reservation on the eastern boundary of 6G had been circulated.

The Secretary said the record of the Committee's sixth meeting referred to the fact that the delegates of China and Japan had reiterated statements made in earlier meetings and that further statements would be made in the Plenary.

The delegate of the People's Republic of China confirmed that he would express his views in detail in the Plenary.

The delegate of Japan said that to facilitate matters, he would bring his Plenary statement forward. His delegation was prepared to go along with Document No. DT/57 insofar as it related to 6D, 6F and 6G, although the solution was not ideal.

3.10 The delegate of Australia proposed that the second paragraph of Document No. DT/57 should be retained in its entirety, and that the following phrase should be added as an end to the sentence :

"... and the operational use of the frequencies allotted to the Sub-Area 6G will not extend beyond the area defined above."

3.11 The delegate of the Philippines said that he could not accept that proposal, but in a spirit of compromise proposed that the last sentence of paragraph 2 of the document should read as follows :

"Also in this common area, the frequencies of 6G shall be used only within the area defined by the line starting at ..." the rest of the sentence to remain unchanged.

The delegates of Indonesia, Japan, Malaysia, Saudi Arabia, Singapore and Thailand supported the Philippines proposal.

3.12 The delegate of the People's Republic of China said that he could agree to an overlapping of the southern part of 6G with 6D and 6F as in the document, and could therefore support the Australian proposal. The Philippines proposal would jeopardize the whole purpose of creating 6G and was therefore unacceptable.

3.13 The delegate of Niger felt that the Australian proposal was incomplete. He could support it provided it contained some provision for the repetition of frequencies allotted to 6G.

3.14 The delegate of Papua New Guinea said that as his country was directly affected by the sharing possibilities in the area, he was anxious to see the intent of the last sentence of paragraph 2 retained. He therefore supported the retention of the document as it stood, plus the additional sentence proposed either by Australia or by the Philippines since technically they served the same purpose.

3.15 The Vice-Chairman said that a more extensive description of the elements of the compromise might be useful. It was essentially a complete package which could never be acceptable if any one element was arbitrarily removed. There had been conflicting proposals in Documents Nos. 53, 55 and 85 and subsequent statements concerning the definition of the Sub-Area 6G. The first step towards a compromise had been to allow all the allotment areas in that one geographical area to overlap and a good deal of time had been involved in including the concern expressed by various delegations. The first proposal, from the Philippines, Malaya, Singapore, Indonesia and Thailand to share the entire area, had been unacceptable because it essentially destroyed one of the elements of Document No. 53, which contained an inherent desire to state the precise operational area, hence the last element of the compromise, the proposal to share the entire area of 6D with 6G, which was the very strong position held by one of the sides in the discussion. In compromise there had then been a cooperative response that the limited operational area defined in the last sentence would be included. In his view, there was no other compromise on any other variation of the Australian proposal that was acceptable; the package as it stood had therefore to be accepted or rejected. The result of the deletion or substantial amendment of the last sentence would not reflect the discussions held prior to obtaining the compromise.

3.16 The delegate of the Philippines stated that the Asian countries had come to the Conference in a spirit of cooperation, willing to enter into compromises and solutions on an equal basis. That was still their intention. He found it sad, therefore, to hear it implied that they were not acting in good faith by proposing the deletion of the last sentence of the document. The amendment had been prepared in an effort to find a solution to the problem, and not to "destroy" the basic element of an unacceptable proposal. Those countries still hoped that the two sides could continue their deliberations and they would be receptive to any balanced proposal that might lead to a solution.

3.17 The Chairman replied that if either he or the Vice-Chairman had appeared to approach the problem in an undiplomatic way, it was because it was not customary for engineers in technical conferences to go into subtleties; their approach to the problem had been more of a technical nature. If the methods employed had not been equal to those used in other specialized agencies, then both he and the Vice-Chairman were prepared to accept the responsibility. Their motives had been solely to arrange proper sharing facilities in the area under discussion, taking into account all technical considerations, and to establish a new Allotment Plan; it was disappointing to see at the last minute that no agreement appeared to be possible.

3.18 The Vice-Chairman said that he had in no way intended to imply that an alternative proposal by any participant in the discussion was tantamount to a breach of trust. There had never been any question of any participant undertaking not to make alternative proposals, which, on the contrary, they were both free and welcome to do. He had merely hoped that the compromise document before the Committee contained enough of the requirements and proposals of the Administrations in the area to be acceptable, and his explanation of its origins had been intended to leave no doubt but that it was a package, and in his view would be unacceptable if it were changed partially.

3.19 The Deputy Secretary-General drew attention to the footnote on page 2 of the document. He read the text already adopted in regard to 27/76 in which the names of the countries or geographical areas did not imply any position with respect to the political status or official recognition of borders. A similar provision existed as a footnote to the map. In preparing the maps for the conference the Secretariat had added a further footnote to the effect that their purpose was to assist the planning experts at the Conference. That was a transitional provision and in view of the debates he suggested that the footnote to the map might also indicate that the map delineated aeronautical areas for the purposes of radiocommunications in the Aeronautical Mobile (R) Service.

3.20 The Chairman said that in view of the inadequate support for the Australian or Philippines proposals, Document No. DT/57 should be retained as it stood.

3.21 The delegate of Australia proposed that the word "will", occurring twice in the first sentence of the second paragraph, should be replaced in each case by the word "shall".

3.22 The delegate of the People's Republic of China said that while he was not fully satisfied with the proposals contained in the document, he had no choice but to support them in view of the lack of time.

3.23 The delegate of the Philippines said that he could not accept the document as it stood, but did not object to it going to the Plenary, where he would make a statement and proposal.

3.24 The delegate of Malaysia also reserved the right to make a statement in the Plenary.

The Chairman suggested that the Vice-Chairman should collect and collate information and opinions for the Plenary, and that discussions on the document should in the meantime continue.

It was so agreed.

3.25 Document No. DT/59

MOD 27/132

It was agreed that the Secretary would prepare new coordinates for Sub-Area 6F in line with correct adjacent and overlapping areas.

3.26 MOD 27/128

The Chairman invited comments on the two coordinates in square brackets.

The delegate of Japan said that he preferred the first coordinate.

The delegate of the Democratic People's Republic of Korea said that he could not accept the full text.

The delegate of The People's Republic of China said that he preferred to retain the second coordinate to be consistent with DT/57.

After a brief discussion it was agreed that the coordinate 20°N 120° 40'E should be retained and the brackets removed.

MOD 27/128 was thus approved.

3.27 NOC 27/129 and MOD 27/130

Approved.

Document No. DT/59 was approved subject to the redefinition of MOD 27/132.

The meeting was suspended at 1730 hours and resumed at 2010 hours.

3.28 The Chairman drew the Committee's attention to the new version of MOD 27/132 (Sub-Area 6F) that had been circulated in Document No. DT/58.

The delegate of the People's Republic of China said that his delegation could accept the text, provided the coordinates 20°N 107°E, 20°N 108°E, 20°33'N 108°E were included after the reference to the Island of Hainan in the third line.

The Secretary of the Committee pointed out that the suggestion would entail a corresponding change in MOD 27/130 (Sub-Area 6D), which had already been approved on second reading.

After a brief discussion, the delegate of the People's Republic of China said he would raise the problem again at an appropriate time.

Document No. DT/58 was approved on that understanding.

3.29 The Chairman invited the delegate of Australia to report on the consultations that had been conducted with a view to reaching agreement on ADD 27/132A (Sub-Area 6G) (Document No. DT/57).

The delegate of Australia said that the countries participating in the consultations had agreed to replace the words "the domestic flights of the People's Republic of China will be" in the sixth and seventh lines of the second paragraph of ADD 27/132A by the words "the operational use by the People's Republic of China of the frequencies allotted to Sub-Area 6G shall be."

The delegates of the People's Republic of China, the Philippines, Malaysia, Singapore and Indonesia endorsed that statement.

Document No. DT/57 was approved as amended.

3.30 The Deputy Secretary-General said he wished to explain the position with regard to reservations, although the need for them might have been eliminated by the outcome of the debate on Sub-Areas 6F and 6G. The time-limit for the submission of reservations had been set for 1730 hours on 1 March 1978 and had thus expired; nevertheless, in accordance with ITU practice, delegations could continue to exercise their rights under Nos. 512 and 513 of the Convention with respect to decisions taken after the expiry of the time-limit, provided a period of 24 hours was left for the submission of counter-reservations before the end of the Conference.

4. Consideration of the second draft Plan (Documents Nos. 266, DT/52)

4.1 The Chairman drew attention to the proposal concerning world-wide allotment areas made by the delegations of Finland, Norway and Sweden in Document No. 266.

4.2 The delegate of Sweden, introducing the document, said that it was based on the Japanese proposal in Document No. 252 and on the Report of Sub-Working Group 5B/1 in Document No. DT/45(Rev.1). While supporting part of the Japanese proposal, the Finnish, Norwegian and Swedish delegations had been unable to accept the table on page 2 of that document, in which frequencies were allotted without any possibility of repetition; that could only lead to unacceptable channel occupancy and, although Administrations would of course have to apply No. 27/21, the document gave no guidance for the choice of the most suitable frequencies in areas other than those to which they were allotted in the Plan. The figures in Document No. DT/45(Rev.1) had therefore been adjusted to take further sharing and repetition possibilities into account; the result was a revised summary table in which the total number of frequencies to be reserved for world-wide allotment areas was the same as in Document No. 252, but the number of available traffic channels was almost twice as great.

4.3 The Secretary of the Committee observed that no provision for sharing was made for frequency group VI on page 4 of Document No. 266, whereas Committee 4 had concluded that some time-sharing was possible because of the ionospheric propagation conditions. Surely the natural phenomena governing frequency usability did not differ for MVARAs, RDARAs and VOLMET areas, on the one hand, and long-distance operational control communications, on the other. The technical considerations used in planning for the two types of application should be aligned.

4.4 The delegate of Sweden said that the same technical criteria were in fact applied in both cases, but that the service areas covered by long-distance operational control communications were clearly much greater than those of MWARAs. That was why it had been agreed in Sub-Working Group 5B-1 not to repeat the frequencies in question more often than was proposed in Document No. 266.

4.5 The delegate of Japan said that the Committee was faced with the alternatives of maintaining the technical standards agreed upon or of introducing a more flexible procedure to accommodate all requirements. Japan favoured the first alternative, in the belief that the new proposal would give rise to frequency-sharing difficulties.

4.6 The delegate of the United States of America agreed that the new proposal seemed to provide excessive sharing possibilities which would give aircraft no protection against interference. He proposed that Document No. 252 should be used as a procedural basis, but that existing sharing possibilities should be taken into account by amending No. 27/21 : the word "However" at the beginning of the last sentence should be deleted and a third sentence should be added, reading as follows : "However, with respect to frequencies allotted world-wide, application of these procedures is based on the aircraft station operating at the limit of its service range (cf. Nos. 27/24A and 27/24E)".

Documents Nos. 252 and 266 both provided compromise solutions, and the choice between them must be made with practical considerations in mind; in that connection, the channel occupancy figures in the first part of Document No. 266 seemed to be purely theoretical.

The delegate of Japan said he could accept the United States proposal.

4.7 The delegate of Sweden said it was important to bear in mind that all the options involved exactly the same aeronautical and aircraft stations and the same amount of traffic. While the procedure set out in Document No. 252 might not raise problems at the early stages, difficulties were bound to arise as the channels became more loaded.

4.8 The delegates of Switzerland, Denmark, the Federal Republic of Germany and Brazil supported the proposal in Document No. 266.

4.9 The delegates of the USSR and Australia supported the United States proposal. Document No. 266 had naturally been prepared in a hurry, and its adoption with any errors it might contain would jeopardize the operation of the whole service. Indeed, some of the figures in the document seemed to be based on dubious calculations and did not give a sufficiently reliable picture of the traffic concerned.

4.10 The delegate of Switzerland suggested that the Committee approve the procedure set out in Document No. 266, with the United States amendment to No. 27/21.

The delegates of the Netherlands and the United Kingdom supported that suggestion.

4.11 The Chairman observed that Committee 5 was not competent to take any decision on No. 27/21, which had already been approved unchanged on second reading in the Plenary Meeting.

Since the majority of speakers had expressed themselves in favour of Document No. 266, he suggested that the procedure set out in that document be approved.

It was so decided.

4.12 The Chairman then drew attention to Annex 3 to the second draft Plan (Document No. DT/52) and observed that unless further efforts were made by delegations to reduce their requirements, it would not be possible to draw up a Plan at all.

4.13 The delegate of the United States of America said that the time had come for delegations to decide whether they wished to leave Geneva with a Plan or not. After stressing that the future and safety of aviation were at stake, he said that it should be possible to produce a workable Plan if all delegations exercised the same degree of objectivity in respect of their RDARA requirements as had been exercised in respect of MWARAs and VOLMET areas. His delegation, for its part, was prepared further to reduce its requirements for Sub-Areas 10A, 11B and 12A as set out in Annex 3 to the second draft Plan. All in all, the reductions made by his delegation with regard to those three Sub-Areas during the course of the Conference represented 39.5 % of the requirements it had submitted originally.

4.14 The delegate of India endorsed the introductory comments by the previous speaker. Although his delegation had already made considerable concessions regarding its total requirements, it was prepared further to reduce the number of channels requested for Sub-Areas 6A and 6E.

4.15 The delegate of the USSR said that with a view to ensuring the success of the Conference, his delegation had transmitted to the Technical Secretary additional reductions in its requirements for three RDARA Sub-Areas.

4.16 The delegate of Papua New Guinea said that his Administration was ready to reduce its requirements for Sub-Area 9B to a level that would, for certain bands, correspond to the number of frequencies already in use.

4.17 The delegate of Pakistan accepted the reduction made by the delegate of India with respect to Sub-Area 6A, which was of concern also to his Administration. With regard to Sub-Area 5B, the five delegations concerned had agreed that a reduction of one channel could be made in either the 5.6 MHz or the 6.6 MHz band.

4.18 The delegate of Algeria said that, subject to the agreement of the other countries concerned, a reduction of one channel could be made in the 13.3 MHz band for Sub-Area 4A.

4.19 The delegate of Senegal, supported by the delegate of Algeria, proposed a reduction of one channel in the 13.3 MHz band for RDARA-4.

4.20 The delegate of Cuba, referring to Sub-Area 12D, said that his Administration could forego one channel in the 3 MHz band.

4.21 The delegate of Ethiopia said that his delegation was willing to reduce its requirements in respect of Sub-Area 5D.

4.22 The Technical Secretary read out a list of reductions received from the Chinese delegation in respect of its requirements for Sub-Area 6G.

4.23 The delegate of Canada, referring to Sub-Areas 10A, 10B, 10C, 10D and 10E, said that his delegation was prepared to reduce its requirements for exclusive channels in the 4.7 MHz and 5.6 MHz bands, subject to the addition of a corresponding number of common channels to be shared between Sub-Areas 10B and 10E in some cases, and 10C and 10E in others.

4.24 The delegate of Mexico announced the reductions that his Administration was prepared to make in respect of Sub-Area 12C.

4.25 The delegate of Australia observed that his Administration's requirements for RDARA-14 and its Sub-Areas as listed in Annex 3 represented a reduction of approximately 33 % on the figures which had been submitted originally.

4.26 The Chairman invited delegations to attempt to make reductions in the number of channels listed for MWARAs and VOLMET areas.

4.27 The delegate of Algeria, supported by the delegates of Senegal and Nigeria, proposed a reduction of one channel in the 13.3 MHz band for the VAFI area.

4.28 Replying to a question by the Chairman, the delegate of Ireland said that he would have difficulty in accepting any reduction in the number of channels in the 13.3 MHz band listed for the VEUR area.

4.29 Replying to a suggestion by the observer for IATA, the delegate of the United States of America said that his delegation would not be able to accept the transfer to the 11.3 MHz band of one of the 13.3 MHz channels in the VNAT area. The number of channels in the 13.3 MHz band for MWARA-CEP, however, could be reduced by one.

4.30 The delegate of Senegal, supported by the delegates of Ethiopia, Kenya and Cameroon, said that the number of channels in the 3 MHz band for MWARA-AFI could be reduced by one.

4.31 The delegate of Niger proposed, subject to the consent of the States concerned, reducing by one the number of exclusive channels in the 13.3 MHz band for MWARA-AFI.

4.32 The delegate of Saudi Arabia said that his Administration would be able to dispense with the common channel in the 10 MHz band in MWARA-MID, but not with the exclusive channel. It might also be possible to reduce the number of channels in the 4.7 MHz band.

4.33 The delegate of Pakistan observed that many frequencies were shared in MWARA-MID. The Administrations concerned might perhaps be given a little time to discuss among themselves the question of possible reductions.

4.34 The delegate of the People's Republic of China made the following statement :

"Regarding the addition of one frequency in common use for MWARAs NCA and EA, we stated at the sixth meeting of Committee 5 on 25 February that we had difficulty in accepting it. It is our understanding that no affirmative decision was taken at that time. This frequency has, however, been listed in the draft Plan. In our view, aircraft of the countries concerned can just as well carry out their flight operations across our country by using frequencies allotted to MWARA-EA.

After studying the issue of one common frequency for the use of MWARAs NCA and EA, we still hold that we have difficulties in undertaking obligations in that regard."

4.35 Replying to a suggestion by the Chairman, the delegate of Brazil, supported by the delegates of Spain and Senegal, expressed the view that it was essential to retain two channels in the 13.3 MHz band for MWARA-SAT.

4.36 Following an exchange of views between the delegates of the United States of America and New Zealand and the Chairman, the delegate of New Zealand said that he could accept the transfer to the 11.3 MHz band of one of the 13.3 MHz band requirements for MWARA-SP.

4.37 The Chairman of Working Group 5B, noting that one of the most serious problems faced by the Committee related to the 13.3 MHz band, proposed that the possibility should be considered of deleting all the requirements in that band for RDARA Sub-Areas.

The delegate of Algeria said that he could accept that proposal in principle; however, the distances involved would need to be taken into account in each particular case.

4.38 The delegate of the United States of America, supported by the delegate of New Zealand, said that he could see no valid reason for retaining 13 MHz channels in RDARA Sub-Areas, except perhaps in a very few cases where the size of the area in question justified the use of that band.

4.39 The delegate of the United Kingdom said that he would have no objection to the deletion of the 13.3 MHz channel allotted to RDARA-1.

4.40 The delegate of India said that given both his country's size and the unusual propagation conditions which prevailed in the region, his Administration would have preferred to be able to use a channel in the 13.3 MHz band. However, it would be prepared to accept the deletion of the common channel in that band for Sub-Areas 6A and 6E on condition that a common channel in the 11 MHz band was made available in its stead.

4.41 The representative of the IFRB pointed out that despite the concessions made thus far by delegations, the requirements listed in the second draft Plan were still approximately 30 or 40 channels too high, of which at least 10 or 12 were in the 13 MHz band.

4.42 The delegate of Australia, supported by the delegate of Mauritius, observed that the deletion of all 13.3 MHz requirements for RDARA Sub-Areas would enable a saving of 13 channels to be made in that band.

4.43 The delegate of Algeria said that he could accept the deletion of the remaining 13.3 MHz channel for Sub-Area 4A on condition that the same rule was applied to all the other RDARA Sub-Areas.

4.44 The delegate of the United States of America considered that the size of the land mass to be covered must be taken into account. Any country 4,000 km or more across needed at least one channel in that band.

4.45 The delegate of the People's Republic of China said that his Administration could agree further to reduce its 13.3 MHz requirements by one channel, but not more; a total of three channels should thus be retained in that band for Sub-Area 6G.

4.46 The delegate of Brazil said that his Administration wished to retain the frequency it was already using in the 13.3 MHz band as a common channel between Sub-Areas 13C and 13K.

4.47 The Chairman said that all 13.3 MHz requirements for RDARA Sub-Areas would be deleted except those to which specific reference had been made during the present discussion.

4.48 The delegate of Algeria suggested that the possibility should be considered of transferring to the draft Plan some of the frequencies in the 13 MHz band which had been allotted to world-wide areas in Document No. 266.

4.49 The Chairman, referring to the Summary Table on page 3 of Document No. 266, suggested certain reductions in the number of frequencies listed in columns I to V.

4.50 The delegate of Sweden said that the authors of Document No. 266 would endeavour to calculate how the figures read out by the Chairman could be distributed among the various regions.

4.51 Following a discussion in which the delegates of Sweden, Algeria, Senegal, the United States of America, Brazil and the observer for IATA took part, the Chairman suggested that further calculations should be made in order to ascertain whether additional savings could be made in the frequencies allotted to world-wide areas for long distance operational control.

It was so agreed.

The meeting rose at 0005 hours on Thursday, 2 March 1978.

The Secretary :

M. SANT

The Chairman :

M. CHEF

INTERNATIONAL TELECOMMUNICATION UNION

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 357-E

3 May 1978

Original : English

COMMITTEE 5

SUMMARY RECORD

OF THE

NINTH MEETING OF COMMITTEE 5

(PLANNING)

Thursday, 2 March 1978, at 1515 hrs

Chairman : Mr. M. CHEF (France)

Subject discussed

1. Examination of the third draft Plan

Document No.

DT/60, DT/61



1. Examination of the third draft Plan (Documents Nos. DT/60, DT/61)

1.1 The Chairman invited the Committee to examine the third draft Plan (Document No. DT/61) based on the computer run incorporating the frequency requirements agreed to in the Committee on the previous day. As would be seen from the summary of the results obtained in Document No. DT/60 requirements were still in excess of the number of channels available so that further adjustments would have to be made. He thanked delegations for the good will shown during bilateral consultations about possible reductions in requirements and the IFRB Secretariat for their assistance.

The Chairman of the Conference and the Steering Committee which was composed of delegates from Administrations representing different regions were aware of the difficulties facing Committee 5 and had shown their confidence in its capacity to establish a Plan by giving it more time to continue the negotiations. He hoped that some of the existing problems would be solved by a common effort possibly by some manual adjustments.

The Committee might first examine Annex 2 in Document No. DT/61 to make sure that all the figures were correct, that the reductions offered at the previous meeting had been entered and that it constituted a sound basis for a Plan. Then the frequency requirements should be reviewed again in an attempt to make further reductions.

1.2 The Secretary drew attention to the additional symbols, C001/..., C002/6G and C003/6G used in what was the third presentation of the frequency requirements. An explanation of those symbols appeared at the bottom of page 1 of Annex I, and he apologized for the fact that, owing to lack of time, the French and Spanish versions had not yet come out. Column 3 of the Plan would contain the appropriate symbol and the area to which it applied. The Plan was to be printed in two formats if a satisfactory Plan were achieved. The second would show the frequencies allotted to each aeronautical area and the computer method required the insertion of symbols in the remarks column.

1.3 The Technical Secretary explained that the computer print-out indicated the number of channels necessary to satisfy the stated requirements set out in Annex 2.

1.4 The delegate of Ethiopia said that he had understood from the discussions in Working Group 5B that RDARA frequencies could be used for operational control within a given RDARA. If so, why should the 5.6 MHz band be needed for operational control.

1.5 The Chairman said that could be done in the case of fairly large RDARAs within which some national services could provide operational control services. But worldwide frequencies had been requested for long-distance operational control.

1.6 The delegate of Australia considered that the Committee must concentrate on the requirements set out in Annex 1 which figured as exclusive allotments.

1.7 The Secretary said it was incorrect to conclude that areas which appeared in isolation towards the end of a particular band had asked for an exclusive allotment. The sharing matrices shown in Documents Nos. 234 and 234(Rev.1) indicated the sharing possibilities for such areas with many other aeronautical areas but when the frequency requirements of each were satisfied some additional requirements might remain alone because there were no others with which to share. For that reason there were cases when there was only a single entry in the 3 MHz or even the 5.6 MHz band.

1.8 The representative of the International Air Transport Association observed that there were 77 cases of single allotments in the computer print-out and a significant proportion of those cases was in the 3 or 4.7 RDARA or sub-RDARA bands. Considerable savings could be made in the VOLMET allotments.

1.9 The delegate of Niger believed it would be preferable to examine the second draft Plan and review RDARA and VOLMET frequencies at the regional level. It should be possible to make savings in 60 channels for long-distance operational control and effect systematic savings in the 3 to 6.6 MHz bands.

1.10 The Chairman pointed out that sharing conditions varied according to the magnitude of frequencies and difficulties could arise over sharing in channels for worldwide use.

As there appeared to be no objection to the procedure he had outlined he invited the Committee to examine Annex 2 page by page.

1.11 Page 1

No comment.

1.12 Page 2

The delegate of Algeria said that in line 011, column 9, the figure should be 2, not 3.

The delegate of China, supported by the delegate of India, proposed that the figure 2 under 13.3 MHz in line 015 should be reduced to 1.

1.13 Page 3

The Chairman, referring to line 018, pointed out that as indicated on page 24 of Annex 1 at line 06 009 M there would be double sharing between AFI, MID and CEP. In order to save a channel CEP and 13F should be transferred to another combination.

The delegate of Saudi Arabia confirmed that the Chairman was right.

1.14 Page 4

The delegate of the United Kingdom, referring to line 026, pointed out that the users of RDARA 1 had agreed to relinquish the channel in the 13.3 MHz band.

1.15 Pages 5 and 6

No comment.

1.16 Page 7

The delegate of Algeria observed that the entry for 10 MHz in line 053 should be 2 + 1, instead of 3 + 1.

The Secretary of the Committee agreed, but pointed out that the frequency in question had been transferred to the 9 MHz band.

The delegate of India confirmed that statement.

The delegate of Algeria, referring to line 055, said that, to the best of his recollection, the Technical Secretary had read out many more geographical restrictions than were referred to in that line.

1.17 The Technical Secretary explained that the figures for the 9 MHz, 10 MHz and 11.3 MHz bands in that line showed the totals obtained on the basis of the geographical restrictions he had read out during the preceding meeting. The breakdown was as follows : in the 9 MHz band, 8 channels for the whole of Sub-RDARA 6G, 4 channels E of 95°E and 2 channels W of 95°E; in the 10 MHz band, 3 channels for the whole of Sub-RDARA 6G, 2 channels E of 95°E and 1 channel W of 95°E; and in the 11.3 MHz band, 4 channels for the whole of Sub-RDARA 6G, 3 channels E of 95°E and 1 channel W of 95°E.

1.18 The delegate of Norway observed that further corrections had been made the previous evening in the 3 MHz, 3.5 MHz, 4.7 MHz and 5.6 MHz bands for Sub-RDARA 6G. Thus, 9 channels in the 3 MHz band, 5 in the 3.5 MHz band and all the channels in the 4.7 MHz band were subject to daytime operation restrictions, and the number of such channels in the 5.6 MHz band should be 7, not 8.

1.19 The Secretary of the Committee said that the Norwegian observation was correct. Although the changes to which he had referred had been taken into account in the new draft, the necessary explanatory notes had been inadvertently omitted.

1.20 Page 8

In reply to comments by the delegate of Algeria concerning line 062, the Secretary of the Committee pointed out that one frequency had been transposed from the 11.3 MHz to the 9 MHz band, but that the 6 MHz band had been left unchanged.

The delegate of Angola confirmed that statement.

1.21 Page 9

The delegate of Papua-New Guinea observed that the daytime only requirements for Sub-RDARA 9B had not been added manually for line 065.

The delegate of Algeria, referring to line 070, said that the figures in the 3.5 MHz band should be 2 + 1* instead of 3 and that those in the 4.7 MHz band should be 3 + 1* instead of 4 + 1*.

1.22 Pages 10 to 14

No comment.

1.23 The Chairman observed that the Committee could now entertain suggestions for sharing combinations with a view to reducing requirements.

He said that he had held consultations with the Chairman and other Members of the IFRB for the purpose both of analysing basic requirements for MWARAs, VOLMET areas and long-distance operational control and of preparing substantial reductions in the draft Plan on the basis of the size and propagation characteristics of the various RDARAs. As a result of those consultations, it was proposed to delete the 4.7 MHz and 10 MHz channels listed for the VEUR area (Annex 2, page 1) and to reduce the number of 13.3 MHz channels from two to one.

It was so agreed.

1.24 Following comments by the observer for IATA, the Chairman suggested that the 6.6 MHz and 11.3 MHz requirements for the VNCA area should be deleted.

It was so agreed.

1.25 The delegate of the United States of America proposed, subject to the agreement of the Administrations concerned, that the 3.5 MHz, 5.6 MHz and 11.3 MHz requirements for the VPAC area should be deleted and that the number of 13.3 MHz channels for that area should be reduced from two to one.

The delegates of New Zealand, the United Kingdom and Japan said that they could accept the proposal.

The proposal was approved.

1.26 The delegate of the United States of America, referring to the 13.3 MHz requirements for MWARAs, suggested that the possibility should be considered of retaining only one common channel for MWARAs CEP, CWP, NP and SP, and another common channel for MWARAs SAM and CAR.

The observer for IATA pointed out that one 13.3 MHz frequency could be saved by allotting a common channel to MWARAs NP and SP.

1.27 The delegate of Sweden said that further calculations had been made in respect of long-distance operational control requirements. If the Committee was prepared to accept an increase of channel occupancy from 40 % to 45 % average over 10 hours of usable time, it would be possible to eliminate one frequency in each of the bands 3 MHz, 5.6 MHz, 10 MHz and 11.3 MHz, and two frequencies in the 13.3 MHz band.

The delegate of the United States of America supported those reductions.

The Chairman said that if he heard no objection he would take it that the Committee agreed to retain the figure of 45 % for channel occupancy.

It was so agreed.

1.28 The delegate of Norway suggested that, with the exception of a few channels that were urgently needed for very large areas, all 13.3 MHz and 18 MHz requirements for RDARAs and RDARA Sub-Areas should be deleted. He also suggested the deletion of all long-distance operational control requirements in the 3 MHz, 3.5 MHz and perhaps even the 4.7 MHz bands.

1.29 The Chairman said that the proposals in respect of RDARA requirements which had been worked out by the IFRB on the basis of operational considerations would be run through the computer immediately, and that account would also be taken of the suggestions and comments made during the present discussion. He suggested that the Committee should reconvene later in the evening in small informal groups in order to study the results.

It was so agreed.

The meeting was suspended at 1800 hours and resumed informally at 2030 hours
for further discussion.

The Secretary :

M. SANT

The Chairman :

M. CHEF

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 358-E

15 May 1978

Original : English

COMMITTEE 5

SUMMARY RECORD

OF THE

TENTH MEETING OF COMMITTEE 5

(PLANNING)

Friday, 3 March 1978, at 2240 hrs and
Saturday, 4 March 1978, at 0910 hrs

Chairman : Mr. M. CHEF (France)

Subjects discussed

1. Consideration of Frequency Allotment
Plan for world-wide allotment areas
2. Approval of the summary records of the
sixth and seventh meetings
3. Consideration of the fourth draft Plan

Document No.

DT/64, DT/65

340, 341

337



1. Consideration of Frequency Allotment Plan for world-wide allotment areas (Documents Nos. DT/64, DT/65)

1.1 The delegate of Sweden said that he would limit his introductory remarks to Document No. DT/65, which was an updated version of Document No. DT/64 and took into account the reductions upon which agreement had been reached the previous day. Since it was not yet known exactly which frequencies would be available for world-wide allotment, the numbering used in the document was for identification purposes only. Furthermore, when the sharing patterns had been rearranged and some of the frequencies in Document No. 266 deleted, the remaining frequencies had not been renumbered accordingly. The reductions made in the lower bands in order to release more channels for use by other services were based on an increase of channel loading to 45 %.

1.2 The delegate of the United Kingdom said that the list of frequencies in the 21 MHz band should be incorporated in the Annex to Recommendation Aer2 - CC rather than in Appendix 27.

The Chairman confirmed that the material relating to the 21 MHz band would be presented as a separate white document.

1.3 The delegate of the United States of America suggested that the following reference should be inserted in the "Remarks" column against each frequency : "For allotment area, see 27/..." (to be completed in each case by the appropriate reference).

1.4 The delegate of New Zealand pointed out that the reference "ADD 27/208" on page 3 of Document No. DT/65 should be replaced by "ADD 27/207A".

1.5 Replying to a question by the delegate of Australia, the Chairman said that the situation with regard to adjacent channels had not been taken into account when the listings in Document No. DT/65 had been drawn up.

1.6 The delegate of Brazil questioned the need to allot frequencies in the lower bands (3 MHz, 3.5 MHz and even 4.7 MHz) to world-wide areas.

1.7 The delegate of Sweden, speaking on behalf of his Administration alone, said that he would have no objection to the deletion of the frequencies allotted for world-wide use in the 3 MHz and 3.5 MHz bands.

1.8 The delegate of Algeria said that he too favoured the deletion of the frequencies in question, particularly those in the 3 MHz band.

1.9 The delegate of Finland pointed out that world-wide operational control requirements had not systematically been considered in conjunction with RDARA allotments. RDARA-1, for instance, did not dispose of a single frequency in either the 3 MHz or the 3.5 MHz band.

The delegates of the United States of America, the United Kingdom and Ireland endorsed the comments by the delegate of Finland.

1.6 The Chairman suggested that further discussion on the matter should be deferred until the fourth draft Plan was considered, at which time the Committee would be in a better position to decide whether the 3 MHz and 3.5 MHz frequencies in question should be retained for long-distance operational control purposes or allotted to RDARAs as appropriate.

It was so agreed.

Documents Nos. DT/64 and DT/65 were approved subject to the necessary corrections and to rearrangement of the listings in order to avoid adjacent channel problems.

The meeting was suspended at 2315 hours on Friday, 3 March, and resumed at 0910 hours on Saturday, 4 March.

2. Approval of the summary records of the Sixth and Seventh Meetings
(Documents Nos. 340, 341)

Summary record of the Sixth Meeting (Document No. 340)

The delegate of Brazil said that the words "delegate of Peru" in paragraph 4B.1 should be replaced by "delegate of Ecuador".

Approved as amended.

Summary record of the Seventh Meeting (Document No. 341)

Approved.

3. Consideration of the fourth draft Plan (Document No. 337)

3.1 The Chairman described the efforts that had been made in the early hours of the previous morning by a number of expert groups for each band in which difficulties were being encountered to achieve further reductions and to consider possible transfers of frequencies to bands in which the requirements corresponded to the available channels. The results of that work were, unfortunately, not as satisfactory as he had hoped they would be, largely owing to faulty adaptation of the previous draft by computer and manual operation : the computer had dealt only with block assignments, and additional indications such as geographical restrictions, had had to be added manually, with the result that Document No. 337 contained a number of errors. Nevertheless, many of those had already been picked up by the Secretariat and the texts and particularly the maps which had recently been approved on second reading in the Plenary would enable delegates to make any further corrections that might be necessary.

3.2 The Secretary of the Committee read out a number of corrections, indicating in particular that Notes C003/3A against frequency 11 312 and C003/3 against frequency 11 339 should be replaced by Notes C007/3A and C008/3, respectively, and that the explanation for both those Notes on page 2 of the document should read "Sharing possible for frequencies not used at Bodo".

3.3 The delegate of Australia observed that certain daytime sharing requirements had been excluded from the 4.7 MHz band, probably because his delegation had not participated in the group discussions on the sub-band in question. He suggested that those requirements be reinstated.

3.4 The delegate of the People's Republic of China said that his delegation was in a similar situation. The reduction of his country's requirements in the 4.7 MHz band would make it very difficult for China to operate its domestic flights. Further reductions appeared also in other bands. He proposed that a working group be convened to review the fourth draft Plan.

3.5 The Chairman welcomed that proposal and said that such a group would be set up after the general debate on the draft was concluded.

The Technical Secretary observed that the listings in Document No. 337 faithfully reproduced what had been received from delegations.

3.6 The Secretary of the Committee said that the omissions referred to by the Australian delegate were due to efforts by the expert groups to insert daytime requirements in new frequency-sharing combinations. He read out some additions to columns 2 and 3 against frequencies 4 651 to 4 696 involving Sub-RDARAs 2A, 2C, 6G, 14A, 14B, 14C, 14D and 14G.

The delegate of Australia said that those additions were acceptable to his delegation.

3.7 The delegate of Papua-New Guinea observed that the additions did not meet the adjacent channel criteria.

3.8 The delegate of the United States of America, supported by the delegate of Japan, pointed out that the addition of Sub-RDARA 6G in frequency 4666 raised a common channel problem between that Sub-Area and MWARA-CWP.

The Chairman said that the working group could deal with that kind of problem.

3.9 The delegate of Canada, commenting generally on allotments in the 4.7 MHz band, said that the propagation conditions in his country made air operations very important. Owing to the relative isolation of the areas concerned, his delegation had not thought that its requirements would be difficult to accommodate, yet the allotments it had been given in the third draft Plan had now been reduced by two channels and, moreover, instead of the one common channel that Canada had been given with an adjacent RDARA, it was now proposed to give it five common channels. RDARAs were very important for Canada's air traffic control, and it would therefore request the reinstatement of its allotments. He was sure that that could be done without detriment to the Plan as a whole.

3.10 The Chairman said that, whereas individual requirements would be considered in the working group, it would be highly desirable for administrations which thought they could do so to resort to the procedure set out in No. 27/21, rather than to try to reclaim allotments they had lost in the common effort to balance requirements with the available channels.

3.11 The Secretary of the Committee read out a list of daytime requirements in the 3 MHz and 3.5 MHz bands, relating to Sub-RDARAs 2A, 2B and 9B.

3.12 The delegate of India suggested that the working group be set up forthwith and that the Committee should adjourn during the meeting of the group and reconvene in some two hours.

3.13 The Chairman said that it was most important to decide first on the terms of reference of the working group. In his view, those terms of reference should comprise correction of all outstanding errors in the fourth draft Plan and the working out of all possible further sharing combinations, but in no case going back on the reductions effected during the consideration of Annex 2 to Document No. DT/61.

The delegate of the People's Republic of China endorsed those comments.

3.14 The Chairman invited the Committee to review the area requirements listed on pages 29 to 37 of the Annex to Document No. 337. He requested delegations to confine their comments to essential problems, bearing in mind that minor adjustments could be entrusted to the working group or made subsequently under the provisions of No. 27/21.

Replying to questions by the delegates of Cuba and Algeria, he said that the 10 MHz frequencies previously allotted to MWARAs AFI and CAR had been deleted only after careful consideration and because there had been no alternative but to make drastic cuts in the number of channels.

3.15 The delegate of Algeria considered that every effort should be made to reintroduce at least one 10 MHz channel for MWARA-AFI. Should that prove impossible, he would suggest the transfer to AFI of the 10 MHz channel allotted to the VAFI area.

3.16 The delegate of Ireland, referring to the 9 MHz frequencies allotted to MWARA-NAT, drew attention to an adjacent channel problem caused by the allotment of frequency 8 828 kHz to the VEUR area. The 6 kHz separation between some of the frequencies in question was also likely to give rise to difficulties.

3.17 The delegate of Greece, referring to RDARA Sub-Area 1D, pointed out that frequencies 2 851 and 2 878 were shared with MWARA-AFI. He requested that those two allotments be transferred to frequencies 2 986 and 2 992, where sharing would be less difficult. He also drew attention to the fact that frequencies 3 410 and 3 416 were adjacent to the 3.5 MHz frequency allotted to the VEUR area.

3.18 The representative of the IFRB, referring to Sub-Area 2B, observed that some of the frequencies which had been indicated in Document No. DT/61 for daytime use were not so qualified in Document No. 337; he would draw the working group's attention to the point at the appropriate time.

3.19 The delegate of Algeria pointed out that one channel too many in the 10 MHz band had been allotted to Sub-Area 4A.

3.20 The delegate of Saudi Arabia drew attention to adjacent channel problems in the 6.6 MHz, 9 MHz and 10 MHz band allotments to MWARA-MID and Sub-Area 5A.

3.21 The delegate of Afghanistan requested that every effort be made to reinsert at least one of the 9 MHz and 10 MHz band frequencies allotted earlier to Sub-Area 5B.

3.22 The delegate of India said that adjacent channels in the 13.3 MHz band had been allotted to RDARA-6 and MWARA-MID, which were overlapping areas. Similar problems arose in Sub-Areas 6A and 6E.

3.23 The delegate of Japan pointed out that the 11.3 MHz channel allotted to RDARA-6 was adjacent to that allotted to MWARA-CWP. A similar problem arose in respect of frequencies 5 604 and 5 607 allotted, respectively, to Sub-Area 6B and MWARA-NP.

3.24 The Chairman, referring to Sub-Area 6G, said that the working group would be requested to make the necessary adjustments, taking into account the proposals submitted earlier by the Chinese delegation and the suggestion that sharing should be sought north or south of 30° latitude.

3.25 The delegate of Angola, referring to RDARA-7, suggested that frequency 11 288 should be deleted and frequency 8 885 inserted in the 9 MHz band column in its stead.

3.26 The delegate of Tanzania said that an adjacent channel problem arose in respect of frequencies 6 568 and 6 571 allotted, respectively, to Sub-Area 7C and MWARA-AFI.

3.27 The delegate of New Zealand observed that frequencies 8 867, 8 870 and 8 873 had been allotted, respectively, to MWARA-SP, RDARA-9 and Sub-Areas 9C and 9D. In his view, it would be possible to make the required rectifications without too much difficulty.

3.28 The delegate of Canada, referring to Sub-Areas 10A to 10E, said that his delegation would draw the working group's attention to a certain number of adjustments to be made in respect of the 4.7 MHz and 6.6 MHz bands. Those changes would not have an adverse effect on sharing and would enable his Administration to meet most of its requirements.

3.29 The delegate of the United States of America, referring to RDARA-12, said that frequency 17 901 could be deleted.

3.30 The delegate of Mexico drew attention to adjacent channel problems in the 5.6 MHz and 9 MHz bands as they affected Sub-Areas 12C and 12D and MWARA-CAR.

3.31 The delegate of Guatemala drew attention to adjacent channel problems in the 11.3 MHz band as it affected Sub-Area 12E, MWARA-CAR and the VCAR area.

3.32 The delegate of Bolivia said that adjacent channel problems affecting Sub-Areas 13D, 13M and 13N arose in the 3 MHz and 5.4 MHz bands.

3.33 The delegate of Brazil observed that frequencies 6 547 and 6 544 had been allotted, respectively, to Sub-Area 13F and MWARA-SAM.

3.34 The delegate of Argentina said that he would draw the working group's attention to an adjacent channel problem affecting Sub-Area 13G.

3.35 The delegate of Australia said that he would submit to the working group a list of adjacent channels in RDARA-14 Sub-Areas, MWARA-SEA and MWARA-SP.

3.36 The delegates of Guinea and Kenya drew attention to adjacent channel problems in the 3 MHz, 3.5 MHz and 6.6 MHz bands as they affected the VAFI area, MWARA-SAT and RDARA Sub-Areas 7B and 7C.

3.37 The delegate of India said that a number of adjacent channel problems arose in respect of the VMID area.

3.38 The delegate of Canada said that he would draw the working group's attention to some serious adjacent channel problems affecting the VNAT area.

3.39 The delegate of the United States of America said that his delegation intended to draw the working group's attention to a number of adjacent channel and co-channel problems which he had refrained from mentioning during the present discussion.

3.40 The Chairman said that it would probably not be possible to alter the draft Plan so as to avoid adjacent channels altogether. However, the related problems were not always very serious; indeed, a number of cases of adjacent channels had long existed in Appendix 27 without giving rise to any complaints of interference.

Now that consideration of the fourth draft Plan had been completed, he proposed that the working group suggested by the Chinese delegation should be given the following terms of reference :

- i) to restore allotments in the Table as they were accepted in Document No. DT/61, together with the restrictions introduced in respect of both daytime operation and geographical limitations; in the latter case, to see whether separation on the basis of parallels rather than meridians would enable any improvements to be achieved;
- ii) to allot the worldwide frequencies marked X W in the Table, taking into account the requirements accepted and rectified on the basis of Document No. DT/65;
- iii) to insert the requirements not appearing in the present Plan, in accordance with the sharing possibilities and bearing in mind that the total should under no circumstances exceed the number of channels accepted in Document No. DT/61 as revised;
- iv) to attempt to eliminate cases of adjacent channels for the most important operational requirements, without increasing other incompatibilities;
- v) to resolve the problem of common channel interference, if any.

The above terms of reference were approved.

3.41 Following a discussion in which the delegates of the United States of America, the USSR, the United Kingdom and the Chairman took part, it was agreed that the Chairman would preside over the working group and that the latter would examine the draft Plan band by band in order to streamline the printing and reproduction process.

It was further agreed that the working group would be composed of the delegates of Sweden, Ireland, the USSR, China, the United States of America, Canada, Australia, Papua New Guinea, Japan, India, Uruguay, Argentina, Algeria and Angola, and that it would be assisted by the IFRB, the Technical Secretariat and the observers for IATA and ICAO.

The Chairman requested delegations to submit their proposals and corrections in writing in order to expedite the working group's deliberations.

The meeting rose at 1240 hours.

The Secretary :

M. SANT

The Chairman :

M. CHEF

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 359-E

31 May 1978

Original : English

COMMITTEE 5

SUMMARY RECORD

OF THE

ELEVENTH AND LAST MEETING OF COMMITTEE 5

(PLANNING)

Saturday, 4 March 1978, at 2120 hrs

Chairman : Mr. M. CHEF (France)

later : Mr. E.D. DUCHARME (Canada)

Subjects discussed

Document No.

1. Consideration of the fifth draft Plan and completion of the Committee's work

345



1. Consideration of the fifth draft Plan and completion of the Committee's work (Document No. 345)

1.1 The Chairman drew attention to the fifth draft Plan (Document No. 345), which was the outcome of the working group's deliberations and in which the frequency allotments were set out band by band. There had not been time to prepare an area-by-area presentation of allotments as well, but that would be done as soon as possible.

He invited comments on the explanatory notes on page 2 of the Annex to Document No. 345.

1.2 Following an exchange of views in which the delegates of the People's Democratic Republic of Yemen, Norway, the USSR, Ireland and Sweden and the observer for IATA took part, it was agreed to delete Notes CO07/3A and CO08/3.

1.3 The Chairman invited the Committee to consider the fifth draft Plan frequency band by frequency band.

1.4 3 MHz band

The delegate of Mexico proposed the transfer of R 12C from frequency 2 890 to 2 980.

The 3 MHz band was approved as amended.

1.5 3.5 MHz band

The delegate of Senegal, supported by the delegates of Nigeria and Guinea, proposed the transfer of R 4B from frequency 3 470 to 3 443.

The 3.5 MHz band was approved as amended.

1.6 4.7 MHz band

The delegate of Argentina proposed that R 13G be transferred from frequency 4 666 to 4 675, with the addition of Note CO01/13G.

The 4.7 MHz band was approved as amended.

1.7 5.4 MHz band (Reg. 2)

Approved.

1.8 5.6 MHz band

The delegate of Mexico proposed the transfer of R 12C from frequency 5 553 to 5 589;

The delegate of the United States of America proposed that M SP be transferred from frequency 5 577 to 5 643.

The 5.6 MHz band was approved as amended.

1.9 6.6 MHz band

The delegate of Argentina proposed the transfer of R 13G from frequency 6 538 to 6 613.

The delegate of Brazil proposed the transfer of M SAM from frequency 6 544 to 6 649.

The delegate of Angola proposed that R 7B be transferred from frequency 6 556 to 6 652.

The delegate of Mexico proposed the transfer of R 12C from frequency 6 574 to 6 571 and from frequency 6 580 to 6 592.

The delegate of Saudi Arabia proposed that R 5A be transferred from frequency 6 628 to 6 664.

The 6.6 MHz band was approved as amended.

1.10 The Chairman announced that he was unfortunately obliged to leave the Conference in order to fulfil service obligations elsewhere.

The delegate of Bolivia expressed the congratulations of all members of the Committee to the Chairman on the way he had guided the preparation of the Plan and its revision.

The Chairman thanked the Committee for those kind words. It had been a pleasure to work with all the participants and the team spirit shown had been truly remarkable. His special thanks were due to the Vice-Chairman and the Chairmen of Working Groups 5A and 5B and to the Technical Secretary and the Secretary of the Committee, whose devotion to duty and constant reliability had been a great source of support.

Mr. Ducharme (Canada), Vice-Chairman, then took the Chair.

1.11 9 MHz band

The delegate of Canada proposed the interchange of R 10D and R 10C in frequencies 8 867 and 8 900 and the transfer of R 10F from frequency 8 873 to 8 945.

The delegate of Australia proposed the transfer of R 14G from frequency 8 816 to 8 876.

The delegate of Kenya proposed the transfer of R 7F from frequency 8 831 to 8 960.

The delegate of Algeria proposed that R 1C be transferred from frequency 8 816 to 8 840 and R 4A from frequency 8 867 to 8 816.

The delegate of Singapore raised the problem of adjacent channels between VSEA on frequency 8 939 and M SEA on frequency 8 942.

After a long discussion in which the delegates of Australia, the United States of America, Papua-New Guinea, Mexico and New Zealand and the observer for IATA took part, the delegate of the United States of America proposed that the existing allotments for frequency 8 939 be deleted; that R 12C be added to frequency 8 948; that R 13K and VSEA be added to frequency 8 849; that the existing allotments for frequency 8 849 be transferred to frequency 8 939; and that R 9B and R 9 be interchanged in frequencies 8 846 and 8 852 and in frequencies 8 819 and 8 906.

The delegate of Singapore endorsed that proposal.

The delegate of India proposed the transfer of R 6E from frequency 8 876 to 8 861, with a Note C011/6E reading "In area 6E use is limited to south of 20°N".

The delegate of Canada said that, although a number of adjacent channel problems remained outstanding with respect to M NAT, Canada would refrain from raising them at that stage of the Conference, but would use its frequency assignment techniques, careful coordination and the application of No. 27/21 to ensure the necessary protection. His delegation hoped that its example would be followed by others which had relatively minor changes to propose.

The 9 MHz band was approved as amended.

1.12 10 MHz band

The delegate of Denmark proposed the transfer of R 10F from frequency 10 057 to 10 042.

The 10 MHz band was approved as amended.

1.13 11.3 MHz band

The delegates of Mauritius and Kenya proposed that R 7E be transferred from frequency 11 288 to 11 306.

The delegate of the United Kingdom, supported by the delegate of Ireland, proposed the addition of a new Note C003/3A against frequency 11 309, reading "For use west of 0° longitude", to provide protection for R 3A.

The delegates of the Federal Republic of Germany and the USSR said that they saw no need for such a note. It had already been agreed to delete similar notes with respect to possible sharing for frequencies not used at Bodo; the requisite coordination could be effected by applying No. 27/20; and it was unnecessary to impose that restriction on M NAT.

After a brief discussion, it was agreed not to insert the note.

It was also agreed to delete Notes C003/3A against frequency 11 309 and C003/3 against frequency 11 336 kHz.

The 11.3 MHz band was approved as amended.

1.14 13.3 MHz band

The delegate of Australia proposed that R 14 be transferred from frequency 13 312 to 13 264.

The delegate of Ireland proposed that R 3 13H be transferred from frequency 13 357 to 13 267 and that 3 kHz be added to all the frequencies in the band subsequent to frequency 13 264.

The 13.3 MHz band was approved as amended.

1.15 18 MHz band

The delegate of the United States proposed the deletion of allotment R 12 in frequency 17 907 as it was not likely to be used, thus leaving a channel free.

It was so agreed. *)

The delegate of Sweden, supported by the delegate of Norway, said that the purpose of the Conference was not to save channels for the Aeronautical Service, but to allot the minimum frequency space to that Service.

The delegate of the United Kingdom endorsed that remark, adding that the Administrative Council Resolution setting out the terms of reference of the Conference specified that efforts should be made to save frequency space at the band edges, so as to make the maximum number of channels available for the 1979 Conference.

After the delegates of New Zealand and Sweden had made proposals for frequency savings in the band, the delegate of the United States of America observed that it would be advisable to place a less important RDARA allotment at the band edge than the one left by the deletion of R 12 from frequency 17 901, in case the adjacent channel in that important area of the Pacific was used for broadcasting.

The delegate of Australia, supported by the delegates of Argentina and Algeria, moved the closure of the debate.

The 18 MHz band was approved.

The fifth draft Plan (Document No. 345) was approved as amended.

1.16 The Technical Secretary said that the amendments made to the Plan would be incorporated in Annex 2 thereto.

The Chairman announced that Committee 5 had completed its work.

The meeting rose at 0215 hours on Sunday, March 5, 1978.

The Secretary :

M. SANT

The Chairmen :

M. CHEF

E.D. DUCHARME

*) See minutes of the Twelfth Plenary Meeting - RDARA 12 re-inserted.

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 360-E

9 March 1978

Original : English

COMMITTEE 6

SUMMARY RECORD

OF THE

SIXTH MEETING OF COMMITTEE 6

(REGULATORY PROCEDURES)

Monday, 27 February 1978, at 1405 hrs

Chairman : Mr. R.J. BUNDLE (New Zealand)

Subjects discussed

Document No.

- | | |
|--|------------|
| 1. Consideration of the Report of Working Group 6 ad hoc on the procedures for frequencies designated for world-wide use | 244 |
| 2. Consideration of draft Recommendation proposed by Denmark, Norway and Sweden | 240 |
| 3. Consideration of draft Recommendation on RR 429 | 217(Rev.1) |
| 4. Consideration of the third and last Report of Working Group 6B | 247 |



1. Consideration of the Report of Working Group 6 ad hoc on the procedures for frequencies designated for world-wide use (Document No. 244)

1.1 Report of Working Group 6 ad hoc (Document No. 244)

The Chairman, introducing the Report of the ad hoc Working Group set up to draft procedures for the use of frequencies designated for world-wide use (Document No. 244), said that the Working Group had taken into account the view expressed by a number of delegations that Article 9B of the Radio Regulations provided a satisfactory basis upon which to proceed. In view of the decision by Committee 5 not to prepare a plan to allot the frequencies available for world-wide use (Document No. 221), the Working Group had also to consider what action should be taken until such time as procedures similar to those of Article 9B would be applicable. The draft Resolution in Annex B to the Report contained a procedure for the provision of allotments on the various frequencies which Committee 5 was expected to designate for world-wide use. In preparing the draft Resolution, the Working Group had paid particular attention to the need to ensure equality of rights for all countries. Annex C to the Report contained a draft text for Article 9C which was a suitably modified version of Article 9B and was intended to provide for the updating of any allotment table or plan which might result from the application of the procedure set out in the draft Resolution. It was proposed in Annex A that the frequency allotment plan should be included in a separate article, and that an allotment should be made to a country for serving that country or a group of countries. The question of whether allotments should be made to geographical areas or to countries had been discussed at length, and the Working Group had come to the conclusion that certain difficulties might arise if the former solution was chosen.

1.2 The delegate of the United Kingdom said that his Administration was opposed to the concept of the procedure outlined in the Report of the ad hoc Working Group, since it did not consider that any procedure of the type set out in Article 9B was relevant to the case in point. The statement by the representative of the IFRB (Document No. DT/51) had not made it clear that a procedure for dealing with what was merely an extended availability of frequencies already existed in Nos. 552 to 560 of the Radio Regulations. Since the frequencies available for world-wide use were not numerous enough to permit of exclusive assignment, what was required was not technical examination by the IFRB but operational agreements between the Administrations concerned. Furthermore, the draft Resolution in Annex B implied that it was the wish of the Conference to establish an allotment plan, whereas Committee 5 had in fact decided against such a plan (Document No. 221). Both the draft Resolution and the proposed Article 9C were based on the misconception that an equivalent of Appendix 25 Mar2 was required for the Aeronautical Service. The entire concept of use of frequencies on a world-wide basis precluded the possibility of allotment to countries or even to geographical areas; what the Committee should be discussing was an assignment procedure rather than an allotment procedure.

1.3 The delegate of the Federal Republic of Germany said that his Administration was among those which considered that some type of regulatory procedure was required in respect of frequencies designated for world-wide use. Assuming that Committee 5 would provide sufficient frequencies for that purpose, his delegation supported Document No. 244, which had been produced by the ad hoc Working Group on the basis of the guidelines given to it by Committee 6 itself.

1.4 The delegate of Japan also supported Document No. 244. Since the Conference would not be able to provide sufficient allotments for world-wide operational control communications, some form of coordination machinery was clearly necessary.

1.5 The delegate of Canada considered that the comments and suggestion by the delegate of the United Kingdom deserved close consideration by the Committee. With that end in view, he was prepared to support them.

1.6 The delegate of the United States of America said that it would be interesting to hear the IFRB's views on the United Kingdom suggestion, which appeared at first sight to be a reasonable one.

1.7 The representative of the IFRB said that he had not referred in detail to Nos. 552 to 560 of the Radio Regulations in the statement to which the United Kingdom delegate had referred, because it had been his understanding that the related procedure would not be acceptable to Administrations in the absence of a plan. If all the frequencies in question were entered in the Master Register with the same date in Column 2a, it would mean that each user would be entitled to international protection against all other users; in his view, that procedure would not be very effective if a substantially larger number of frequency assignments was involved.

1.8 The delegate of Australia said that the ad hoc Working Group had scrupulously respected the instructions which it had been given by the Committee, which was therefore collectively responsible for the proposals in Document No. 244. He agreed in principle with the view that allotment on either a world-wide or a geographical area basis would not function effectively without a certain amount of operational coordination; the question of whether such coordination should be dealt with inside or outside the framework of the Conference would need to be considered.

1.9 The delegate of Finland supported the view that the ad hoc Working Group had carried out its instructions.

1.10 The delegate of the USSR considered that Document No. 244 provided a useful basis for the Committee's consideration of the machinery required for the operation of frequencies to be used on a world-wide basis.

1.11 The Chairman observed that the Committee had given the ad hoc Working Group a clear mandate to proceed on the assumption that an allotment plan was desirable. No dissent had been voiced on that point at the fifth meeting, and the view now being put forward by the United Kingdom delegation had not been expressed in the Committee on any previous occasion.

1.12 Replying to the question by the delegate of France, the representative of the IFRB said that Resolution No. Mar2 - 7 was mentioned in Document No. DT/51 as an example of a procedure which could be applicable to both assignments and allotments.

1.13 The delegate of the United Kingdom considered that it would suffice to include in Appendix 27 a table listing the frequency channels designated for world-wide use. In his view, the draft Resolution in Annex B did not comply with the underlying principle of Resolution No. Mar2 - 7 which was that countries themselves should settle, by mutual agreement, any difficulties which arose and that the IFRB had no decision-making role to play in that connection.

1.14 Replying to a question by the Chairman, the Deputy Secretary-General drew attention to the fact that the Conference had adopted ADD 27/194A which made provision for world-wide frequencies in a general form and also that a substantial majority of delegations at the Committee's previous meeting had expressed views which had resulted in the directive to the ad hoc Working Group to draw up a procedure based on Article 9B.

1.15 The delegate of Japan drew attention to Document No. 252, which contained, among others, a proposal by his delegation concerning the definition of the world-wide allotment area and was therefore closely connected with the issue under consideration.

1.16 After further discussion, the Chairman said that as it was not the function of Committee 6 to work out an allotment plan, Committee 5 must first take a decision on the Japanese proposal in Document No. 252; consequently, it would be preferable to defer further consideration of the ad hoc Working Group's Report until that had been done.

It was so agreed.

2. Draft Recommendation proposed by Denmark, Norway and Sweden (Document No. 240)

2.1 The delegate of Norway, presenting the joint proposal, apologized for its being submitted at a late stage but the three sponsors believed it would be useful for the Conference to draw up a Recommendation relating to the use of frequencies for exercising control over regularity of flight and for safety of aircraft. Two corrections had to be made in the text. The word "aeronautical" should be inserted after the words "that HF" in recommends 1 and also substituted for the word "ground" in recommends 2.

Agreement had already been reached on No. 27/194A (Document No. 204) and the guiding principles for the use of world-wide frequencies set out in the draft Recommendation were based on ICAO Recommendation 6/1. (Document No. 211).

2.2 The delegate of Spain considered that recommends 1 was superfluous since it merely stated what was already being done. The text of the draft Recommendation should not deviate from No. 27/194A.

2.3 The delegate of the USSR said that in paragraph 1 the mention of "safety of flight" could be added. Paragraph 4 ought to be qualified by an introductory phrase such as "it is desirable".

2.4 The delegate of Argentina, referring to paragraph 2, wondered who was to be judge of what number of stations constituted a minimum consistent with economic and operational efficiency.

2.5 The Chairman said that as the draft Recommendation seemed generally acceptable apart from some changes in wording, a small drafting group consisting of delegates from Argentina, Norway, Spain, the USSR, the United States of America and an observer from IATA might be set up to prepare the final text.

It was so agreed.

3. Consideration of draft Recommendation on No. 429 of the Radio Regulations (Document No. 217(Rev.1))

3.1 The Chairman, drawing attention to the draft Recommendation on the concordance of the French, English and Spanish texts of No. 429 of the Radio Regulations prepared by

the Swiss delegate in consultation with Spanish-speaking delegations, pointed out that the Conference could only recommend how the concordance of the three versions could be achieved but the amendment of the texts could only be effected by the 1979 WARC itself.

3.2 The delegate of Switzerland said that in the last line of paragraph a) the word "to" before the word "concord" should read "do".

3.3 The delegate of the United Kingdom proposed replacing the word "to" by the word "with" after the word "concord" in the last line of paragraph a).

The draft Recommendation, as amended, was approved.

4. Consideration of the third and last Report of Working Group 6B
(Document No. 247)

4.1 The Chairman of Working Group 6B presented its third Report containing a draft Recommendation relating to the transition to the Frequency Allotment Plan contained in Appendix 27 Aer2.

The text had been adopted unanimously.

The Recommendation in Document No. 247 was approved.

The Chairman thanked Working Group 6B and particularly its Chairman for the excellent work accomplished.

The meeting rose at 1645 hours.

Secretary :

M. AHMAD

Chairman :

R.J. BUNDLE

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 361-E

9 March 1978

Original : English

COMMITTEE 6

SUMMARY RECORD

OF THE

SEVENTH MEETING OF COMMITTEE 6

(REGULATORY PROCEDURES)

Tuesday, 28 February 1978, at 1015 hrs

Chairman : Mr. R.J. BUNDLE (New Zealand)

Subjects discussed

Documents Nos.

1. Procedures for frequencies designated for world-wide use (continued)
2. Draft Recommendation relating to the efficient use of world-wide frequencies

244, 252, 265

263



1. Procedures for frequencies designated for world-wide use (continued)
(Documents Nos. 244, 252, 265)

1.1 The Chairman drew attention to the note (Document No. 265) from the Chairman of Committee 5 stating that it had revised its earlier decision and was now going to consider preparing an Allotment Plan for frequencies designated for world-wide use.

If that was accomplished, he assumed that the existing provisions of Appendix 27 and Article 9 of the Radio Regulations would then apply to such frequencies.

1.2 The delegate of the Netherlands, supported by the delegate of Italy, said that there was no point in discussing further the Report of Working Group 6 ad hoc (Document No. 244) until the outcome of Committee 5 deliberations was known.

1.3 The delegate of Japan said that as the world-wide allotment areas proposed by the Japanese delegation (Document No. 252) were very extensive some thought might have to be given to the procedures that would be needed for the frequencies in question.

1.4 The delegate of India, supported by the delegate of Venezuela, said that in order to ensure that such an Allotment Plan functioned properly Committee 6 would have to consider whether existing procedures would be adequate.

1.5 The delegate of the USSR said that instead of discussing the proposals in Document No. 244, it would be preferable for Committee 6 to draft a Recommendation by which the IFRB and ICAO were invited to establish a proposal concerning the coordination procedures to be applied to frequencies designated for world-wide use for consideration at, for instance, the next meeting of ICAO.

1.6 The representative of the IFRB, replying to a question by the United States delegate as to how existing procedures could be applied to frequencies for world-wide use, said that the provisions of Nos. 552-558 of the Radio Regulations would apply. A frequency notified by an Administration would be entered in the Master Register with a date in Column 2a.

He pointed out that the Japanese proposal did not indicate how families of frequencies would be made up. The Master Register would presumably contain a large number of entries for the same channel with the same date in column 2a. All the countries involved might not be willing to coordinate through ICAO. In his view, irrespective of the method, some form of coordination prior to the use of these frequencies would be desirable.

1.7 The delegates of the United Kingdom and the German Democratic Republic supported the USSR proposal.

1.8 The delegate of the Netherlands favoured the adoption of a draft Resolution or Recommendation urging Administrations to coordinate frequencies.

1.9 The delegate of Papua New Guinea pointed out that, if Committee 5 drew up an Allotment Plan, the frequencies in question would become subject to the provisions of No. 27/20 which recommended consultation with ICAO.

1.10 The delegate of Canada, supported by the delegates of Switzerland and Japan said that the flexibility provided in the existing provisions whereby an Administration could coordinate through ICAO, or direct through ITU must be retained.

1.11 The delegate of the Federal Republic of Germany, agreed and wondered whether the Conference was competent to address a Recommendation to ICAO which was a United Nations specialized agency.

1.12 The delegate of India said that it was not clear whether the existing procedures would be adequate for the new frequencies. The interests of all Administrations must be safeguarded and equal rights of access to the frequencies assured.

1.13 The Chairman observed that under the terms of No. 27/20 coordination through ICAO could not be made compulsory.

1.14 The delegate of the United Kingdom, said that the provisions contained in Nos. 552-558 of the Radio Regulations enabled Administrations to notify assignments direct to IFRB if they did not wish to coordinate through ICAO. Given the small number of frequencies being proposed some interference might be expected and would call for operational coordination. The proposed Recommendation should invite the IFRB to cooperate with ICAO in examining how the frequencies might best be used. Cooperation between the two had been excellent in the past and the problem could safely be left to them.

The delegate of the United States felt that an elaborate new procedure was not required to regulate the use of frequencies designated for world-wide use.

1.15 The delegate of Japan observed that ICAO had an important role in operational matters and ITU in techniques of frequency management throughout the world. The IFRB examined every assignment according to its technical standards. Thus each organization had its proper function to discharge.

1.16 The Deputy Secretary-General said that the proposed Recommendation should stress the need for cooperation between Administrations in the interests of efficient operational sharing for the better use of frequencies in any particular area. It could be effected through bilateral sub-regional discussions between Administrations or through ICAO meetings, as well as through the ITU. Such a function was separate from the process of formal notification, publication and registration procedures through the IFRB.

1.17 The delegate of France said that cooperation between ICAO and ITU was essential. In order to determine how the best use could be made of frequencies for world-wide use, information on the number of aircraft, flights and volume of traffic would be needed.

1.18 The representative of the IFRB emphasized that ICAO and the IFRB had collaborated closely in the past and would continue to do so. The difference, however, between collaboration at Secretariat level and agreements between the Member States of two international organizations must be borne in mind.

Instead of a Recommendation addressed to ICAO and in order not to run the risk of touching upon questions of competence, it would be better to instruct the IFRB to carry out the study, in cooperation with ICAO where necessary, of the assignment of world-wide frequencies. Such a study would not entail any change in the status of entries in the Master Register. The instructions to the IFRB should be sufficiently clear and precise.

1.19 The delegate of the United Kingdom said that adherence to the provisions of Article 9 would be adequate for the examination by the IFRB. Recommendation No. 20 in the Radio Regulations provided a precedent for addressing a Recommendation to ICAO.

1.20 The delegate of the Federal Republic of Germany said that he would not object to a Recommendation in very general terms such as Recommendation No. 20.

1.21 The Chairman suggested that a small Drafting Group be established consisting of delegates of the Federal Republic of Germany, France, Japan, the United Kingdom, the United States, the USSR and a representative of the IFRB to draft a Recommendation in the light of the foregoing discussion. The observer for ICAO might be invited to take part.

It was so agreed.

1.22 The delegate of Japan said that Committee 6 still had to consider the definition of a world-wide allotment area as proposed by his delegation in Document No. 252.

The text of ADD 27/8A as given in Document No. 252, was approved.

1.23 The Chairman said in reply to a point raised by the Deputy Secretary-General, that he would discuss the form which the Allotment Plan for frequencies designated for world-wide use might take with the Chairman of Committee 5.

1.24 The delegate of the United States of America said that he wished to thank the Chairman of Committee 6 and the Working Group 6 ad hoc for the admirable way in which they had prepared the Report in Document No. 244 and the IFRB for its contribution. The Report had been of great help to the Committee in reaching the final decision in connection with the world-wide frequencies.

2. Draft Recommendation relating to the efficient use of world-wide frequencies
(Document No. 263)

2.1 The delegate of Norway presented the text prepared by the Drafting Group set up to re-draft the Recommendation submitted by Denmark, Norway and Sweden in Document No. 240. Unanimous agreement had been reached on a simplified text from which paragraph 4 of the original had been omitted since its content was already covered in a resolution.

2.2 The delegate of Canada doubted whether the shortened version of the Recommendation was needed at all since it merely re-affirmed existing or new Recommendations. If it were to be adopted, account must be taken of the fact that Canada, being a large country, might require more than one station. He therefore proposed the addition of the words "except where a country covers a very large geographical area" at the end of paragraph 2.

2.3 The delegate of Spain supported the Canadian amendment which would also cover the case of a territory falling within more than one world-wide allotment area.

The Chairman pointed out that paragraph 2 did not preclude the use of more than one station.

2.4 The delegates of Sweden, Japan and the USSR were in favour of the Recommendation.

2.5 The Deputy Secretary-General said that the use of the term "geographical area" which now had been defined by the Conference would create difficulties.

2.6 The delegate of Sweden, supported by the delegates of Switzerland and Norway, proposed that the word "normally" be restored after the words "and there should not" in paragraph 2, as it had appeared in the original text appearing in Document No. 240.

The draft Recommendation, as amended by Sweden, was approved.

The meeting rose at 1135 hours.

Secretary :

M. AHMAD

The Chairman :

R.J. BUNDLE

AERONAUTICAL (R) CONFERENCE

(Geneva, 1978)

Document No. 362-E

9 March 1978

Original : English

COMMITTEE 6

SUMMARY RECORD
OF THE
EIGHTH AND LAST MEETING OF
COMMITTEE 6
(REGULATORY PROCEDURES)

Wednesday, 1 March 1978, at 1515 hrs

Chairman : Mr. R.J. BUNDLE (New Zealand)

Subjects discussed :

Document Nos.

- | | | |
|----|--|---------------|
| 1. | Summary records of second, third and fourth meetings of Committee 6 | 259, 267, 264 |
| 2. | Report of Drafting Group on Recommendation relating to world-wide frequencies | 283 |
| 3. | Report of Chairman of Committee 6 on the form of the table of world-wide frequencies | - |
| 4. | Completion of the Committee's work | - |



1. Summary records of second, third and fourth meetings of Committee 6
(Document Nos. 259, 267, 264)

1.1 Summary record of second meeting (Document No. 259)

Approved.

1.2 Summary record of third meeting (Document No. 267)

Approved.

1.3 Summary record of fourth meeting (Document No. 264)

Paragraph 1.3

The delegate of the United States of America proposed the substitution of the words "a clear reflection of the statement by" for the words "the clear exposé of" in the fifth line.

Paragraph 3.1

The delegate of Spain pointed out that the Spanish text of Document No. 192 referred to in paragraph 3.1 should be corrected to read "...las frecuencias muy altas ..." (very high frequencies).

Paragraph 4.6

The delegate of Kenya asked that the words "would not allow" in the sixth line be replaced by the words "would be reluctant to allow".

Paragraph 4.14

The delegate of Argentina said that the opening phrase was incorrect and should read "did not support public correspondence, but did not object to discussing it ...".

Paragraph 5.2

The delegate of the United States of America said that in the second paragraph of 5.2 the word "similar" should be substituted for the word "identical" and the number of the last reference should be 557A and not ADD 577A.

The summary record of the fourth meeting, as amended, was approved.

1.4 The Chairman suggested that the Committee might authorize him to approve the remaining summary records which had not yet been circulated.

It was so agreed.

2. Report of Drafting Group on Recommendation relating to world-wide frequencies
(Document No. 283)

2.1 The Chairman of the Ad Hoc Drafting Group presented its Report containing a draft Recommendation relating to cooperation in the efficient use of world-wide frequencies. The Drafting Group, consisting of delegates of France, Japan, the United Kingdom, the United States and the USSR, assisted by representatives of the IFRB and ICAO had reached unanimous agreement on the text. The draft Recommendation enjoined Administrations to coordinate the use of world-wide frequencies and to seek the advice of the IFRB and of ICAO.

2.2 The delegate of the Netherlands said that although such a draft Recommendation might not be regarded as strictly necessary the importance of coordination must be stressed, and he could support its adoption.

2.3 The delegates of the Federal Republic of Germany, Switzerland and Australia, considered that the draft Recommendation was superfluous but they would not oppose its adoption.

2.4 The Deputy Secretary-General suggested the addition of an operative paragraph 4, requesting the Secretary-General to communicate the Recommendation to ICAO. Such a clause was standard practice in recommendations affecting outside bodies.

It was so agreed.

2.5 The representative of the IFRB said that in the French text of paragraph c) the phrase "dans les zones auxquelles s'applique le plan d'allotissement" might be ambiguous. If that impression was due to non-alignment with the English text, the French text should be corrected.

After some discussion, the Chairman suggested that Committee 7 be requested to align the three texts.

It was so agreed.

The draft Recommendation in Document No. 283, as amended, was approved.

3. Report of Chairman of Committee 6 on the form of the table of world-wide frequencies

3.1 The Chairman stated that the Chairman of Committee 5 had informed him of his Committee's intention to include the world-wide frequencies in the allotment plan in the same table which would include allotments for MWARAs, RDARAs, VOLMETs, etc. There was thus no need for Committee 6 to consider wording of headings for a separate table. Since the provision contained in ADD 27/194A would indicate the purpose of the world-wide frequency allotments, that should suffice.

3.2 The delegate of the Federal Republic of Germany said, in reply to a question by the delegate of Switzerland, that at Committee level it had been decided to enlarge No. 27/189 to include frequencies intended to be used on a world-wide basis. They would be entered in Nos. 27/195 to 207. Item 3 of the first Report of Committee 6 (Document No. 204) covered the point.

4. Completion of the Committee's work

4.1 The Chairman, announcing that the Committee had concluded its work, thanked all the members and the Vice-Chairman in particular for their cooperation. He was particularly grateful to the Chairman of Working Group 6A for his capable conduct of its discussions and to the Chairman of Working Group 6B for his excellent assistance. He also thanked the staff of IFRB and the General Secretariat for their help and the Technical Secretary of the Committee.

4.2 The delegate of Switzerland, supported by the delegates of the United States of America and Spain, expressed warm appreciation for the courteous and skillful manner in which the Chairman had carried out his task which had often involved difficult issues both in the Committee and at informal consultations.

The meeting rose at 1600 hours.

The Secretary

M. AHMAD

The Chairman

R.J. BUNDLE

LISTE DES PARTICIPANTS

LIST OF PARTICIPANTS

LISTA DE PARTICIPANTES

Cette liste comprend les sections suivantes - This list includes the following sections - Esta lista comprende las secciones siguientes

1. Délégations - Delegations - Delegaciones
2. Organisations internationales - International Organizations - Organizaciones Internacionales
 - 2.1 Nations Unies - United Nations - Naciones Unidas
 - 2.2 Institutions spécialisées - Specialized Agencies - Instituciones especializadas
 - 2.3 Autres Organisations - Other Organizations - Otras Organizaciones
3. Siège de l'Union - Headquarters of the Union - Sede de la Unión
4. Secrétariat de la Conférence - Secretariat of the Conference - Secretaría de la Conferencia

Les symboles suivants sont utilisés - The following symbols are used - Se utilizan los símbolos siguientes

- C : Chef de délégation - Head of delegation - Jefe de delegación
CA : Chef adjoint de délégation - Deputy Head of delegation - Jefe adjunto de delegación
D : Délégué - Delegate - Delegado
A : Conseiller - Adviser - Consejero
S : Membre du secrétariat de la délégation - Member of delegation secretariat - Miembro de la secretaría de la delegación
+ : Interprète - Interpreter - Intérprete



1. DELEGATIONS - DELEGATIONS - DELEGACIONES

Afghanistan (République d') - Afghanistan
(Republic of) - Afganistan (República de)

C M. RAZEQ Abdul Naqarar
Deputy Director General of Engineering
Afghan Civil Aviation and Tourism
Authority, Kabul

Algérie (République Algérienne
Démocratique et Populaire) -
Algeria (Algerian Democratic and
Popular Republic) - Argelia
(República Argelina Democrática
y Popular)

C M. BOUHIRED Nouredine
Secrétaire général du Comité
de Coordination des télécom-
munications
Ministère PTT, Alger

CA M. ROUAB Mohammed
Ingénieur Télécommunications
Ministère PTT, Alger

D M. AIT BENHAMOU Mohand Ouamaz
Inspecteur
PTT, Alger

D Mlle BELAKHDAR Fadila
Ingénieur Télécommunications -
Radiodiffusion et Télévision
Algérienne, Alger

D M. BENCHEMAM Messaoud
Ingénieur - E.N.E.M.A.
Ministère des Transports, Alger

A M. KADI M'Hammed
Attaché
Mission Permanente d'Algérie,
Genève

Allemagne (République fédérale d') -
Germany (Federal Republic of) -
Alemania (República Federal de)

C M. BINZ K. Rudolf
Deutsche Bundespost,
Bundesministerium für das Post-
und Fernmeldewesen, Bonn

CA Dr SPINDLER Klaus
Deutsche Bundespost
Bundesministerium für das Post- und
Fernmeldewesen, Bonn

D Dr LINSMAYER E. (Mme)
Botschaftsrätin
Ständige Vertretung der Bundesrepublik
Deutschland bei dem Büro der Vereinten
Nationen und den anderen
Internationalen Organisationen, Genève

D Mme LÜBERT Gabriele
Fernmeldehauptsekretärin
Deutsche Bundespost,
Fernmeldetechnisches Zentralamt,
Darmstadt

D M. MÜLLER Hans Joachim
Regierungsamtsrat
Bundesanstalt für Flugsicherung
Frankfurt/Main

D M. OLMS Klaus
Postoberrat
Deutsche Bundespost
Fernmeldetechnisches
Zentralamt, Darmstadt

D M. STRICK Joachim-Siegfried
Amtsrat
Deutsche Bundespost,
Bundesministerium für das Post- und
Fernmeldewesen, Bonn

D M. WITTE Klaus
Hilfsreferent
Bundesministerium für Verkehr,
Bonn

A M. MÖLLER Claus
Flugkapitän
Deutsche Lufthansa,
Frankfurt/Main

Angola (République Populaire d') -
Angola (People's Republic of) - Angola
(República Popular de)

C M. BESSA-VICTOR Humberto
Director General for
Communications - State Secretariat
for Communications, Luanda

CA M. MATOS José Gualberto
Head of Radio Telecommunications
Division - State Secretariat for
Communications, Luanda

Arabie Saoudite (Royaume de l') -
Saudi Arabia (Kingdom of) -
Arabia Saudita (Reino de)

C H.E. Dr. OBAID Ibrahim Ahmed
Deputy Minister of PTT
Ministry of PTT, Riyadh

CA M. DAGHISTANI Abdur Rehman
Director General of Telecommunications
Ministry of PTT, Riyadh

D M. AL FARHA ALGHAMDI Saeed Abdulla
Communication and Nav-Aids Engineer
Civil Aviation Department

D M. HAIDAR Abdullah Hussain
General Director
Ministry of PTT, Riyadh

D M. OMAIRY Hamid M.
S/MGR Radio Communications
Saudi Arabian Airlines, Jeddah

A M. CHOUDHRY Nur Mohammad
Asst. Adviser to Delegation Ministry
of PTT, Riyadh

A M. MOHAMMED O.H.
ITU Adviser Programming
and Planning
Ministry of PTT, Riyadh

Argentine (République) - Argentine Republic -
Argentina (República)

C M. OTERO MOSTEIRIN Marcelo
Ingeniero
Secretaría de Estado de Comunicaciones,
Buenos Aires

D M. BALBERDI Santiago Vicente
Jefe Division - Asignaciones Servicio
Espacial y Microondas
Secretaría de Estado de Comunicaciones,
Buenos Aires

D M. GARGIULO Carlos Aquiles
Jefe Departamento - Asignaciones
Servicios Móvil Aeronáutico y Móvil
Marítimo
Secretaría de Estado de Comunicaciones,
Buenos Aires

D M. MURGUIA Miguel Angel
Dirección de Comunicaciones del Comando
de la Fuerza Aérea, Buenos Aires

D M. POMBO Menigno
Dirección de Comunicaciones del Comando
de la Fuerza Aérea, Buenos Aires

Australie - Australia

C M. BARNES P.D.
Engineering Coordinator (International
Conferences)
Postal and Telecommunications
Department, Melbourne

D M. GLOVER J.
Flight Service Supervisor
Department of Transport, Melbourne

D M. KING K.H.
Chief Communications Engineer
Department of Transport, Melbourne

D M. WEBB J.
Radiocommunications Senior Planning
Engineer
Department of Transport, Melbourne

Bahreïn (Etat de) - Bahrain (State of) -
Bahrein (Estado de)

- C M. SALMAN Yousif Ahmed
Superintendent of Operations
Civil Aviation Directorate, Bahrain
- D M. STAVERT Gordon K.
Adviser to Directorate of Civil
Aviation, Bahrain

Bangladesh (République Populaire du) -
Bangladesh (People's Republic of) -
Bangladesh (República Popular de)

- C M. AHSANULLAH A.M.
Additional Secretary-in-charge,
Ministry of Post, Telegraph and
Telephone, Dacca
- CA M. MURSHED Manzur
Director (T&T)
Ministry of Post Telegraph and
Telephone, Dacca
- D M. MOTALIB S.A.
Assistant Director, Communications
Department of Civil Aviation, Dacca

Belgique - Belgium - Bélgica

- C M. THEYS Auguste V.G.
Directeur Général
Régie des Télégraphes et des
Téléphones, Bruxelles
- CA M. MAHIEU Jean
Ingénieur en Chef, Directeur
Régie des Télégraphes et des
Téléphones, Bruxelles
- D M. GODART L.F.
Directeur général
Régie des Voies Aériennes,
Bruxelles
- D M. HAP Georges
Ingénieur, Chef de Service Principal
Sabena, Bruxelles
- D M. REYNIERS Maurice Joseph
Expert Principal
Régie des Voies Aériennes, Bruxelles

Biélorussie (République Socialiste
Soviétique de) - Byelorussian Soviet
Socialist Republic - Bielorrusia
(República Socialista Soviética de)

- C M. AFANASSIEV P.V.
Minister of Posts and Telecommunications
Ministry of Posts and Telecommunications
Minsk

Bolivie (République de) - Bolivia (Republic
of) - Bolivia (República de)

- C M. VELAZQUEZ ALQUIZALETH Clovis
Jefe del Departamento de Radio difusión
y Televisión
Dirección General de Telecomunicaciones
La Paz

Brésil (République Fédérative du) - Brazil
(Federative Republic of) - Brasil (República
Federativa del)

- C M. HERMANO BALDUINO Paulo Ricardo
World Affairs Coordinator of the
Secretariat of International Affairs,
Secretariat General of the Ministry of
Communications, Brasilia
- D M. MUCIANO DOS SANTOS José
Department of Electronics and Flight
Protection, Ministry of Aeronautics,
Rio de Janeiro

- A M. MALERBA Antonio
Head of the Sub-Department
Brazilian Airlines (VARIG), Brasilia

Bulgarie (République Populaire de) -
Bulgaria (People's Republic of) - Bulgaria
(República Popular de)

- C M. IGNATOV Ivan
Ministère du PTT, Sofia
- D M. PETKOV Boris
Ministère du PTT, Sofia
- D M. PETROV Ilia
Bulgarian Permanent Mission, Geneva

Cameroun (République Unie du) - Cameroon
(United Republic of) - Camerun (República
Unida del)

- C M. VEGA Victor I.N.
Chef Services des Fréquences et des
Installations Privées
Ministère des Postes et Télécommu-
nications, Yaoundé
- CA M. ESSESSE DIKONGUE Jean
Ingénieur des Télécommunications
Aéronautiques - Chef de Département des
Installations Techniques à l'ASECNA
Ministère des Transports (Aéronautique
Civile), Yaoundé

Canada - Canada

- C M. DuCHARME Edward D.
Director of WARC Activities
Department of Communications, Ottawa
- CA M. IRWIN Matthew J.R.
WARC Arrangement Officer
Department of Communications, Ottawa
- CA M. LONGMAN W.G.
Superintendent Frequency Management,
Transport Canada, Ottawa
- D Mme CHASE Micheline
Policy Analyst, National Telecommu-
nications Branch
Department of Communications, Ottawa
- D M. PERRIN J.P.
Superintendent Field Operations
Telecommunications and Electronics
Branch
Department of Transport, Ottawa
- D M. POIRIER J.W.H.
Frequency Assignment Officer
Department of Communications, Ottawa
- D M. SALISBURY H.F.
Special Advisor WARC Activities
Telecommunications and Electronics
Branch
Department of Transport, Ottawa
- D M. GILLIES J.B.
Third Secretary, Canadian Permanent
Mission, Geneva

Chili - Chile

- C M. LAGOS Jaime
Conseiller
Mission permanente du Chili,
Genève
- D M. OYARCE Pedro Enrique
Troisième Secrétaire
Mission permanente du Chili,
Genève

Chine (République Populaire de) - China
(People's Republic of) - China (República
Popular de)

- C M. WANG Nai-tien
Deputy Director, Command Bureau
General Administration of Civil
Aviation of China, Peking
- D M. CHAO Hsin-tung
Ministry of Posts and Telecommunications,
Peking
- D M. HSU Ke-chi
Dept. of International Affairs, General
Administration of Civil Aviation of
China, Peking
- D M. HUA Chu
Chief engineer
Communications Division, Command Bureau,
General Administration of Civil Aviation
of China, Peking
- D M. LU Yuan-ping
Assistant Chief, Communications
Division, Command Bureau
General Administration of Civil
Aviation of China, Peking
- D M. WANG Shih-tsien
Communications Division, Command
Bureau, General Administration of
Civil Aviation of China, Peking
- D M. YU Meng-chia
Second Secretary
Permanent Mission of the People's
Republic of China, Geneva
- A M. HSU Ju-ming
Communications Division, Command Bureau
General Administration of Civil
Aviation of China, Peking
- S Mme CHAO Chang-ying
Permanent Mission of the People's
Republic of China, Geneva
- S Miss CHIAO Hsiao-kuang
Communications Division, Command
Bureau, General Administration of
Civil Aviation of China, Peking

Colombie (République de) - Colombia
(Republic of) - Colombia (República de)

C Dr. GALLO SUAREZ Orlando
Jefe Sección Internacional Ministerio
de Comunicaciones, Bogotá, D.E.

CA M. GUTIERREZ DIAZ Alirio
Jefe de la División de Ingeniería
Eléctrica y Electrónica
Depto. Adm. Aeronáutica Civil,
Bogotá, D.E.

Congo (République Populaire du) -
Congo (People's Republic of the) -
Congo (República Popular del)

C M. OKOUO Jean Pierre
Ingénieur, Chef, Bureau d'Etudes
des télécommunications,
Office national des PTT,
Brazzaville

Corée (République de) - Korea (Republic
of) - Corea (República de)

C S.E. M. LHO Shinyong
Ambassador and Permanent Representative
Permanent Mission of the Republic of
Korea, Geneva

CA M. KO Chang Soo
Counsellor
Permanent Mission of the Republic of
Korea, Geneva

D M. IM Jeong Jai
Director Frequency Division
Office of Radio Regulatory, Seoul

D M. KIM Hyun Duk
Assistant Director, Propagation
Laboratory
Radio Research Laboratories, Office
of Radio Regulatory, Seoul

D M. KIM Jong Soung
Assistant Director, Communication and
Electronics Division Civil Aviation
Bureau
Ministry of Transportation, Seoul

Côte d'Ivoire (République de) - Ivory Coast
(Republic of the) - Costa de Marfil
(República de la)

C M. GNONSOA Komoangnan
Ingénieur
Office des Postes et Télécommunications,
Abidjan

CA M. GNASSOU Claude
Ingénieur, Adm. de l'Aviation Civile
Aéronautique Civile, Abidjan

A M. NGUESSAN Konan
Technicien Aviation Civile
Aéronautique Civile, Abidjan

Cuba

C M. RODRIGUEZ ACOSTA Francisco
Jefe del Departamento de Tráfico
Empresa de Telecomunicaciones Inter-
nacionales de Cuba, del Ministerio de
Comunicaciones, La Habana

Danemark - Denmark - Dinamarca

C M. LARSEN P.V.
Telegraph Inspector
General Directorate of Posts and
Telegraphs, Copenhagen K

CA M. BENDTSEN Vagn Otto
Senior Executive Officer
General Directorate of Posts and
Telegraphs, Copenhagen K

D M. BIRCH Erik
Directorate of Civil Aviation
Copenhagen K

Egypte (République Arabe d') - Egypt (Arab
Republic of) - Egipto (República Árabe de)

C M. SAMIR MOKHTAR
Conseiller
Mission permanente de la République
Arabe d'Egypte, Genève

D M. EL SHAHAT Zakaria
Director General of Communications,
Egyptian Civil Aviation Authority,
Cairo

Emirats Arabes Unis - United Arab Emirates -
Emiratos Arabes Unidos

C M. AL OWAIS Ali Salem
Deputy Director General, T & T
Ministry of Communications, Abu Dhabi

CA M. FANOUS Halim J.
Head of Telecommunications
Ministry of Communications, Abu Dhabi

Ecuateur - Ecuador

C M. LARA César
Instituto Ecuatoriano de Telecomuni-
caciones (IETEL), Quito

Espagne - Spain - España

C M. VALBUENA GRANADOS Manuel
Servicio Móvil Aeronáutico -
Subsecretaría de la Aviación Civil,
Madrid

CA M. GARCÍA CERREZO Luis
Premier Secrétaire
Misión Permanente de España en Ginebra

D M. BARRANCO ALVAREZ J.L.
Experto Comunicaciones Móviles (CTNE)
Madrid

A M. GÓMEZ-BARQUERO SÁNCHEZ Esteban
Jefe División Ingeniería de Telecomu-
nicaciones y Mecanización, Iberia
Líneas Aéreas de España, Madrid

Etats-Unis d'Amérique - United States of
America - Estados Unidos de América

C Mme DILLON Betty C.
Consultant, Bureau of Economic and
Business Affairs, Department of State,
Washington

(Alter-
nate) CA M. KEYS Carlton A.
Chief International Telecommunications,
Federal Aviation Administration,
Washington

CA M. ANDERSON Dexter
Office of International Communications
Policy Department of State, Washington

Etats-Unis d'Amérique - United States of
America - Estados Unidos de América
(suite) - (cont.)

CA M. SMITH Hillyer S.
Director, External Affairs,
Aeronautical Radio Inc.,
Annapolis, Maryland

Senior Adviser M. BILLER Joel W.
Deputy Assistant Secretary of State
for Economic and Business Affairs
Department of State, Washington

D M. BLAKER Herbert T.
Manager, Communications Regulatory
Policy, Rockwell International,
Washington

D M. CLIMIE B. Richard
Assistant Director,
Aeronautical Radio, Inc.,
Annapolis, Maryland

D M. FISHER Charles D.
Chief, Rules and Legal Branch,
Aviation and Marine Division Federal
Communications Commission, Washington

D M. FRIEDLAND Sidney
Telecommunications Attache
United States Mission, Geneva

D M. MC INTYRE Robert
Engineer, Aviation and Marine Division
Federal Communications Commission,
Washington

D M. PALMER Lawrence M.
International Conference Staff
Federal Communications Commission,
Washington

D M. SOLLIEN Richard O.
Deputy Director, External Affairs,
Aeronautical Radio, Inc.,
Annapolis, Maryland

D M. TITUS William M.
Communications Specialist
Federal Aviation Administration,
Washington

D M. URBANY Francis S.
Manager International Communications
Office of Telecommunications Policy,
Executive Office of the President,
Washington

D M. WILLIAMS Francis K.
Chief, Treaty Branch, Federal
Communications Commission, Washington

S M. ANDERSON Oscar R.
Communications Specialist, Office of
Telecommunications, Department of
Commerce, Washington

Ethiopie- Ethiopia - Etiopia

- C M. SEBHATU Tesfatsion
Chief of Radio Regulatory Branch of
Telecommunications Service,
Addis Ababa
- D M. AYANA Mitiku
Head of Engineering Department,
Civil Aviation Authority,
Addis Ababa

Fidji - Fiji

- C M. ALI Ahmad
Operations Officer, Communications,
Department of Civil Aviation, Nadi
Airport

Finlande - Finland - Finlandia

- C M. HAHKIO Touko Ilmari
Head of Section
General Direction of Posts and
Telegraphs, Helsinki
- CA M. KARJALAINEN Jorma Kalervo
Dipl. Engineer
General Direction of Posts and
Telegraphs, Helsinki

France - Francia

- C M. CHEF Maurice
Ingénieur Principal
Direction Générale de l'Aviation
Civile, Paris
- CA M. DHENIN Christian-Jack
Attaché d'Administration, Sous-Chef
au Bureau des Radiocommunications,
Direction Générale des Télécommu-
nications, Paris
- D M. BISNER René
Adjoint au chef du Bureau centralisation
national pour le contrôle des émissions
radioélectriques, PTT, Paris
- D M. BLETTERIE René
Administrateur
Secrétariat d'Etat aux Postes et
Télécommunications, Paris

France - Francia (suite) - (cont.)

- D M. CHASPOUL Paul
Administrateur
Secrétariat d'Etat aux Postes et
Télécommunications, Paris
- D M. LONGU Maurice
Ingénieur, Service Technique de
la Navigation Aérienne, Paris
- D M. LUCIANI Jean-Pierre
Inspecteur Central
Défense Nationale, Paris
- D M. NEMO André
Conseiller, Mission permanente de
la France, Genève

Gabonaise (République) - Gabon Republic -
Gabonesa (República)

- C M. ASSOKO-ALLOGO Anare
Ingénieur Navigation Aérienne
ASECNA Gabon, Libreville

Ghana

- C M. BUAGBE K.A.
Principal Radio Engineer
Department of Civil Aviation
Accra

Grèce - Greece - Grecia

- C H.E. M. METAXAS André
Ambassador,
Permanent Representative of Greece,
Geneva
- CA M. HAGER Constantine
Head of Section, General Direction
of Posts and Telecommunications,
Athens
- D M. BENMAYOR Nissim
Head of Section, Mobile Services
General Direction of Posts and
Telecommunications, Athens
- D M. GALATOPOULOS Andre
Attaché, Mission permanente de la
Grèce, Genève

Grèce - Greece - Grecia (suite) - (cont.)

- D M. GOUNARIS Elias
Conseiller
Mission permanente de la Grèce,
Genève
- D M. STAMATOPOULOS Georges
Head of Section, Civil Aviation
Authority, Athens
- A M. MARGARONIS Michael
Ingénieur en chef au domaine des
télécommunications, Civil Aviation
Authority, Athens
- A M. VASSILIOU Stylianos
Ingénieur en chef au domaine des
télécommunications, Civil Aviation
Authority, Athens

Guatemala (République du) - Guatemala
(Republic of) - Guatemala (República de)

- D M. RIVERA PEREZ Eduardo
Jefe de la Sección de Clasificación y
Asignación de Frecuencias
Ministerio de Comunicaciones y O.P.,
Guatemala
- D M. VASQUEZ TOLEDO Olmedo A.
Dirección General de Aeronáutica Civil,
Guatemala

Guinée (République de) - Guinea (Republic
of) - Guinea (República de)

- C M. DIALLO Mamadou Salio
Secrétaire général du Comité National
de Coordination des Télécommunications
Ministère des Postes et Télécommunications,
Conakry
- D M. CONDE Sékou
Directeur de la Navigation Aérienne
Direction Générale de l'Aviation
Civile, Conakry

Haute-Volta (République de) - Upper Volta
(Republic of) - Alto Volta (República del)

- D M. KABA Youssouf
Ingénieur des Télécommunications
Office des Postes et Télécommunications,
Ouagadougou

Hongroise (République Populaire) -
Hungarian People's Republic - Húngara
(República Popular)

- C Dr. HORVÁTH Lajos
Head of Division for Radiocommu-
nications
General Direction of PTT, Budapest
- CA Dr. KOVACS Gabor
Chef de la Division Gestion des
Fréquences
Direction Générale des Postes
Hongroises, Budapest
- D Dr. CSATÁRI Sándor
Dipl.ing., General Direction of PTT
Budapest
- D M. SZEKELY János
Senior Counsellor
General Direction of PTT, Budapest

- D Mme ZVERKÓ Maria
Dipl. Ing.
General Direction of PTT, Budapest

Inde (République de l') - India (Republic
of) - India (República de)

- C M. SRIRANGAN T.V.
Wireless Adviser, Govt. of India,
Ministry of Communications, New Delhi
- D M. CHAUDHURI Biswapati
Engineer
Ministry of Communications, New Delhi
- D M. JOSHI M.D.
Deputy Communications Manager, Air
India, Bombay
- D Dr. MAJUMDAR S.C.
Deputy Director, Civil Aviation
Department,
Government of India, New Delhi

Indonésie (République d') - Indonesia
(Republic of) - Indonesia (República de)

- C M. PRATOMO Th. A.
Director Frequency Management and
Monitoring, Directorate General Post
and Telecommunications, Jakarta
- D M. GADJALI R.
Head of the Aeronautical Information
Service, Directorate General of the
Air Communications, Jakarta
- D M. JASIN Feisoel Maulana
Licensing Section, Sub-Directorate
Frequency Management and Monitoring,
Directorate General Post and Tele-
communications, Jakarta
- D M. LUNTUNGAN Frans Emile
Head of Flight Assistance Service,
Directorate General of Air Communica-
tions, Jakarta
- A M. NASIER Abdul
Third Secretary
Indonesian Permanent Mission, Geneva

Iran - Irán

- C M. HAKIMIAN Aminollah
Director General of Telecommunications
PTT of Iran, Teheran
- D M. NIKBAKSH TEHERANI Mohammad Ali
Manager of Electronic Engineering
Department, Civil Aviation Organization
of Iran, Teheran
- D M. YAZDANI Anbia
Frequency Management Expert in the
Imperial Iranian Air Force, Teheran

Irlande - Ireland - Irlanda

- C M. O'NEILL Daniel J.
Staff Engineer, Radio Division,
Engineering Branch
Department of Posts and Telegraphs,
Dublin

Italie - Italy - Italia

- C M. PETTI A.
Dirigeant Supérieur
Poste e Telecomunicazioni, Rome
- D M. FARIOLI Marcello
Administration P.T.
Direzione Centrale Servizi
Radioelettrici, Rome
- D M. GLORIOSO G.
Dirigeant d'Exploitation,
Bureau Relations Internationales,
PTT, Rome
- D M. PATERNO Giovanni
M.O.D. (Air Force)
Rome
- D M. RAMILLI Ubaldo
Directeur adjoint de Division
Administration italienne de P.T.
Rome
- D M. VOZZI Lanfranco
Conseiller - Mission permanente
d'Italie

Japon - Japan - Japón

- C M. KIKKAWA Kyuso
Head of the Aeronautical and Maritime
Division, Radio Regulatory Bureau,
Ministry of Posts and Telecommuni-
cations, Tokyo
- CA M. FUJIOKA Masayoshi
Special Assistant to Radio Regulatory
Bureau, Ministry of Posts and
Telecommunications, Tokyo
- D M. AWAYA Yutaka
Deputy Head, Frequency Division, Radio
Regulatory Bureau, Ministry of Posts
and Telecommunications, Tokyo
- D M. SATO Shunichi
First Secretary
Mission permanente du Japon, Genève
- D M. TABUCHI Hideo
Special Assistant to the Director,
Radio Engineering Division Civil
Aviation Bureau, Ministry of Transport,
Tokyo

- D M. TANIGUCHI Sadakatsu
Conseiller
Mission permanente du Japon, Genève

Japon - Japan - Japon (suite) - (cont.)

- D M. UTSUMI Yoshio
First Secretary
Mission permanente du Japon, Genève
- A M. ISHIZAKI Takashi
Assistant to General Manager of Flight
Operations Department, Japan Air Lines
Company Ltd., Tokyo
- A M. ITAHA Takayuki
Assistant to Manager of International
Relations Department, Kokusai Denshin
Denwa Company Ltd. (KDD), Tokyo
- A M. KAWASUMI Yasuhiko
Chief of International Technical
Relations Section, International
Relations Department, Kokusai Denshin
Denwa Company Ltd. (KDD), Tokyo

Kenya (République du) - Kenya (Republic of)
Kenya (República de)

- C M. MALUMBE Stanley Akolo
Chief of Project Engineering
Kenya Posts and Telecommunications,
Nairobi
- D M. CHALLO Stephen Mishomba
Sectional Engineer Radio Control and
Licencing
Kenya Posts and Telecommunications
Corporation, Nairobi
- D M. ODUNDO Isaac N.
Ag. Assistant Director (Telecommuni-
cations)
Directorate of Civil Aviation, Nairobi

Koweït (Etat de) - Kuwait (State of) -
Kuwait (Estado de)

- CA M. ALDUWAISAN Abdul Rahman
Deputy Chief Radio Engineer
C.A.D., Kuwait
- D M. AL-AMER Sami
Deputy Chief Frequency Licences and
Monitoring Station
Ministry of Communications, Kuwait

Koweït (Etat de) - Kuwait (State of) -
Kuwait (Estado de) (suite) - (cont.)

- D M. AL-HASAWI Ahmad Abdulla
Aircraft Radio Eng.
Kuwait Airways, Kuwait
- D M. ALTAHO Faisal Mansour
Chief of Communications, Directorate
of Civil Aviations
C.A.D., Kuwait

Libéria (République du) - Liberia (Republic
of) - Liberia (República de)

- C M. BUTLER Samuel H.
Managing Director
Liberia Telecommunications Corporation,
Monrovia

Libye (Jamahiriya Arabe Libyenne Populaire
Socialiste) - Libya (Socialist People's
Libyan Arab Jamahiriya) - Libia
(Jamahiriya Árabe Libia Popular Socialista)

- C M. ALSABEY Mohamed Saleh
Frequency Registration
P&T Corporation, Tripoli
- CA M. ALSADEK Mohamed Ali
Chief of Air Navigation, Civil Aviation
Department, Tripoli

Malaisie - Malaysia - Malasia

- C M. MENON K.P. Ramanathan
Director of Telecoms, Telecommunications
Dept., Government of Malaysia, Kuala
Lumpur
- D M. ANTHONYSAMY S.
Director of Air Traffic Services,
Civil Aviation Department,
Kuala Lumpur
- D M. ESA Mohamed Saufi Bin
Assistant Controller of Telecom,
Telecommunications Department,
Government of Malaysia, Kuala Lumpur
- A M. KAMARULZAMAN S.N.
Second Secretary
Permanent Mission of Malaysia, Geneva

Maroc (Royaume du) - Morocco (Kingdom of) - Marruecos (Reino de)

- C M. HASBI Bouchaïb
Chef du Service Technique de
l'Aéronautique Civile
Ministère des Transports, Direction
de l'Air, Rabat

Maurice - Mauritius - Mauricio

- D M. SOOBARAH Jagadish
Aeronautical Communications Engineer
Department of Civil Aviation
Ministry of Communications, Port Louis

Mauritanie (République Islamique de) -
Mauritania (Islamic Republic of) -
Mauritania (República Islámica de)

- C M. MANGASSOUBA Aliou
Responsable des Centres de Transmission
Office des Postes et Télécommunications,
Nouakchott

Mexique - Mexico - México

- C M. VALADEZ-G. Ignacio
Jefe de la Oficina de Asignaciones del
Depto. de Frecuencias Radioeléctricas
Dirección Gral. de Telecomunicaciones,
México, D.F.
- D M. RUBIO-R. Bladimir
Subjefe del Depto. de Operaciones de
Aeronaves, Dirección General de
Aeronáutica Civil, México, D.F.
- A M. CORDOBA-C. Fernando
Jefe del Depto. de Comunicaciones
Aeronáuticas, Radio Aeronáutica
Mexicana, S.A. de C.V., México, D.F.

Monaco - Monaco

- C S.E. M. SOLAMITO César Charles
Ministre Plénipotentiaire
Délégué Permanent auprès des Organismes
Internationaux
Direction Générale des Postes et
Télécommunications, Monte Carlo

Mongolie (République Populaire de) -
Mongolian People's Republic - Mongolia
(República Popular de)

- C H.E. Dr. ERDEMBILEG Dugersurengiin
Ambassador, Permanent Mission of the
Mongolian People's Republic, Geneva
- D M. SONOM Davaa
Third Secretary
Permanent Mission of the Mongolian
People's Republic, Geneva

Niger (République du) - Niger
(Republic of the) - Níger (República del)

- D M. OUSMANE Issoufou
Commandant de l'aéroport de Niamey
Ministère des Postes et
Télécommunications, Niamey

Nigeria (République Fédérale de) - Nigeria
(Federal Republic of) - Nigeria (República
Federal de)

- C M. INOMA R.E.N.
Deputy Director
International Relations
Ministry of Communications, Lagos
- D M. HART J.A.
Chief Engineer
International Relations
Ministry of Communications, Lagos
- A Mme FOLAMI Wonu
Legal Adviser, Federal Ministry of
Communications, Lagos

Norvège - Norway - Noruega

- C M. GRIMSTVEIT Lavrans
Chief Engineer
Norwegian Telecommunications
Administration, Oslo
- D M. BØE Arne
Head of international relations Office
Norwegian Telecommunications
Administration, Oslo
- D M. BØE Thormod
Chief Engineer
Norwegian Telecommunications
Administration, Oslo

Norvège - Norway - Noruega (suite) - (cont.)

- D M. BREKKENES Olav
Chief Engineer
Norwegian Telecommunications
Administration, Oslo
- D M. EDVARDSEN J.H.
Chief Engineer
Civil Aviation Administration, Oslo

Nouvelle-Zélande - New-Zealand -
Nueva Zelandia

- C M. BUNDLE Robert John
Principal, Telecommunications
Division (Radio),
Post Office Headquarters
Wellington
- CA M. BECKER Ross William
Supervising engineer (Radio)
Post Office Headquarters
Wellington
- D M. PEARSON Raymond Kenneth
Superintendent Communications
(Development)
Civil Aviation Division,
Ministry of Transport, Wellington

Pakistan (République Islamique du) -
Pakistan (Islamic Republic of) -
Pakistán (República Islámica de)

- C M. QURESHI Shahid Hussain
Chief Engineer
(Overseas Communications)
Pakistan Telegraph & Telephone
Department, Islamabad
- D M. AHMED Mushtaque
Senior Communication Officer
Civil Aviation Department, Karachi

Panama (République de) - Panama
(Republic of) - Panamá (República de)

- C *) M. HURTADO Diego
Director del departamento
de Navegación Aérea
Dirección de Aeronáutica civil,
Panamá

*) 6-17.2.1978

**) 18.2.-4.3.1978

Panama (République de) - Panama
(Republic of) - Panamá (República de)
(suite) (cont.)

- C**) M. GARCÍA GRIMALDO Ismael
Asesor técnico de Telecomunicaciones
Panamá
- CA S.E. M. VILLAMONTE RAMOS Aquilino P.
Ambassadeur, Representante Permanente
alterno, Encargado de Negocios,
Mission permanente du Panama, Genève
- D M. PAREDES Luis Antonio
Jefe sección Radio Ayudas
Dirección de Aeronáutica civil,
Panamá

Papua-Nouvelle-Guinée - Papua New Guinea
Papua Nueva Guinea

- C M. RAILTON G. Hugh
ITU and Radio Engineer
Department of Public Utilities,
Port Moresby
- CA M. KULUPI Sydney
Manager Radio Branch
Department of Public Utilities,
Port Moresby
- D M. EMERY Chris. R.
Assistant Director
(Airways Engineering)
Civil Aviation Agency, Port Moresby

Paraguay (République du) - Paraguay
(Republic of) - Paraguay (República del)

- C M. GINI ESPINOLA Miguel Horacio
Director de radiocomunicaciones
y Administración de Frecuencias
Administración nacional de
Telecomunicaciones, Asunción
- D M. VEGA ALMIRON Héctor Raul
Dirección general de aeronáutica civil,
Asunción

Pays-Bas (Royaume des) - Netherlands
(Kingdom of the) - Países Bajos
(Reino de los)

- C M. DAMMERS W.
Chief Communications Bureau
Directorate of Air Traffic Services
and Telecommunication
Ministry of Transport and Public
Works, The Hague
- CA M. VISSER Anne Renze
Deputy Chief Frequency Management
and Licensing Section of the
Radio Control Service
PTT, The Hague
- D M. WITZEN Robert
Ass. Chief Communications bureau
Directorate of Air Traffic Services
and Telecommunications, Ministry
of Transport and Public Works, The Hague
- A M. DIEPENBEEK C.T.W. van
Spectrum Policy section of the
Radio Control Service, PTT
The Hague
- A M. LIBIER Robert Maurice
Chief technical Affairs
Government Telecomm. Admin.
"Landsradio", Curaçao N.A.

Philippines (République des) -
Philippines (Republic of the) -
Filipinas (República de)

- C S.E. M. BRILLANTES Hortencio J.
Ambassador and Permanent
Representative
Philippines Mission, Geneva
- CA M. CARREON Ceferino S.
Chairman, Board of Communications,
Quezon City
- D M. ESPEJO Calixto V.
Attaché
Philippines Mission, Geneva
- D M. MARASIGAN Ricardo
Foreign Service Officer
Department of Foreign Affairs
Manila
- D M. SAN JUAN Heraclio
Chief, Regulations Division
Telecommunications Control Bureau,
DPWTC, Manila

Pologne (République Populaire de) -
Poland (People's Republic of) -
Polonia (República Popular de)

- C M. KOZŁOWSKI Konrad
First Deputy Minister
Ministerstwo Łączności
Ministry of Posts and Telecommunications
Warszawa
- CA Mme SMOLENSKA Halina
Director of Radiocommunications
Department, Ministerstwo Łączności
Ministry of Posts and Telecommunications
Warszawa
- D M. JANOWSKI Jerzy
Engineer, Ministerstwo Komunikacji
Warszawa
- D M. KUPCZYK Zbyszko
Engineer
Ministerstwo Łączności
Ministry of Posts and
Telecommunications, Warszawa

Portugal

- C S.E. M. de CARVALHO Adriano
Ambassadeur, Représentant permanent
du Portugal, Genève
- CA M. PIRES FRANCO Domingos António
Ingénieur en chef
PTT Portugais, Lisbonne
- D M. PINTO DE LEMOS António
Attaché, Mission permanente
du Portugal, Genève

Qatar (Etat du) - Qatar (State of) -
Qatar (Estado de)

- C M. AL-MANNAI A.
Engineer
Department of Telecommunication, Doha
- CA M. AL KAWARI Salem
Operations Officer
Civil Aviation Department, Doha

République Arabe Syrienne - Syrian Arab
Republic - República Árabe Siria

- C M. MAHFOUZ Hayan
Chef de la Division des Relations
Internationales, Etablissement des
Télécommunications, Damas
- CA M. HABBAB Haitham
Directeur de Télécom. Aéronautique
L'Aviation Civile, Damas

République Démocratique Allemande -
German Democratic Republic -
República Democrática Alemana

- C M. CALOV Manfred
State Secretary
Ministry of Posts and
Telecommunications, Berlin
- CA M. GÖTZE Herbert
Head of Section
Ministry of Posts and
Telecommunications, Berlin
- D M. BÖTTCHER Horst
Scientific adviser
Ministry of Posts and
Telecommunications, Berlin
- D M. JOSUPEIT Gerhard
Scientific adviser
Ministry of Posts and
Telecommunications, Berlin
- D M. LUSKY Gerhard
Scientific adviser
Ministry of Posts and
Telecommunications, Berlin
- D M. ZUBE Kurt
Director of Air-Safety and
Communications
Interflug, Berlin
- A Dr. HUGLER Oskar
First Secretary of the Permanent
Mission of the German Democratic
Republic
- + Mme RADEMACHER Sigrid
Ministry of Posts and
Telecommunications, Berlin

République Populaire Démocratique
de Corée - Democratic People's Republic
of Korea - República Popular Democrática
de Corea

- C M. KIM RYE HYON
Director,
Department of Foreign Relations,
Ministry of Posts and
Telecommunications, Pyongyang
- CA M. O SUNG RYUL
Head,
Communications Section,
Civil Aviation Administration,
Pyongyang
- D M. CHA YONG CHUN
Interpreter,
Department of Foreign Relations,
Ministry of Posts and
Telecommunications, Pyongyang
- D M. HAN YONG RYONG
Navigator,
Civil Aviation Administration,
Pyongyang
- D M. MIN WANG GI
Responsible functionary of the
Department of Foreign Relations
Ministry of Posts and
Telecommunications, Pyongyang
- A M. ZANG CHANG CHOU
2nd Secretary of the Permanent
Observer of the Democratic
People's Republic of Korea, Geneva

République Socialiste Soviétique
d'Ukraine - Ukrainian Soviet Socialist
Republic - República Socialista
Soviética de Ucrania

- C M. SAVANTCHUK V.A.
Deputy Minister of Posts and
Telecommunications, Ministry of
Posts and Telecommunications, Kiev

Roumanie (République Socialiste de) -
Roumania (Socialist Republic of) -
Rumania (República Socialista de)

- C M. CEAUŞESCU Constantin
Vice-Directeur général à la
Direction générale des postes et
télécommunications, Ministère des
transports et télécommunications
Bucarest
- CA M. DRĂGHICI Aurel
Ingénieur principal
Ministère des Transports et
Télécommunications, Bucarest
- D M. COSTESCU Aurel
Premier-Secrétaire
Mission Permanente de la République
Socialiste de Roumanie, Genève
- D M. FAGHIURA Victor
Secrétaire au Ministère des
Affaires Etrangères
Ministère des Affaires Etrangères,
Bucarest
- D M. STOICA Nicolae
Ingénieur
Département de l'Aviation civile
Bucarest

Royaume-Uni de Grande-Bretagne et d'Irlande
du Nord - United Kingdom of Great Britain
and Northern Ireland - Reino Unido de Gran
Bretaña e Irlanda del Norte

- C M. BAPTISTE D.E.
Assistant Secretary
Radio Regulatory Department
Home Office, London
- CA M. NORTH G.W.
Deputy Director
Civil Aviation Authority,
Space House, Kingsway, London
- D M. ASHTON R.H.J.
First Secretary
United Kingdom Mission, Geneva
- D M. HOWARTH Frederick H.
Principal, Radio Regulatory Division
Home Office, London

Royaume-Uni de Grande-Bretagne et d'Irlande
du Nord - United Kingdom of Great Britain
and Northern Ireland - Reino Unido de Gran
Bretaña e Irlanda del Norte (suite) - (cont.)

- D M. JEFFERY G.V.
Senior Air Traffic Engineer
Civil Aviation Authority, London
- D M. PEACOCK G.P.
Principal Air Traffic Engineer
Civil Aviation Authority, London
- D M. YOUNG W.T.
Principal Air Traffic Engineer
Civil Aviation Authority, London
- A M. CHU H.K.
Senior Telecommunications Officer

Sao Tomé-et-Principe (République
Démocratique de) - Sao Tome and Principe
(Democratic Republic of) - Santo Tomé y
Príncipe (República Democrática de)

- C M. RAMOS Fernando
Opérateur de télécommunication
aéronautique
Service de l'Aéronautique civile,
Sao Tomé
- D M. COSTA Deolindo
Contrôleur de la circulation
aérienne
Service de l'Aéronautique civile,
Sao Tomé

Sénégal (République du) - Senegal
(Republic of the) - Senegal (República del)

- C M. DIONE Alioune Mbodji
Chef de la Division des
Télécommunications
Office des Postes et
Télécommunications, Dakar
- D M. DIAGNE Amadou Balla
Ingénieur de l'Aéronautique civile,
Chef du Service Maintenance et
Installations techniques
Représentation de l'ASECNA, Dakar

Singapour (République de) - Singapore
(Republic of) - Singapur (Repubblica de)

- C M. WAN Seng Kong
Director of Secretariat
Telecommunication Authority
of Singapore, Singapore
- CA M. RAJASINGAM R.G.
Manager of Regulatory Affairs
Telecommunication Authority
of Singapore, Singapore

Suède - Sweden - Suecia

- C M. BJÖRNSJÖ Krister
Senior executive Officer
Swedish Telecommunications
Administration, Stockholm
- D M. BRASK Jan
Engineer
Board of Civil Aviation, Norrköping
- D M. LOGGERT Karl H.
Senior executive Officer
Swedish Telecommunications
Administration, Stockholm

Suisse (Confédération) - Switzerland
(Confederation of) - Suiza (Confederación)

- C M. BLASER Hermann
Chief of General Services and
Radio Regulatory Affairs
Swiss PTT, Bern
- CA M. KIEFFER Henry
Chief of section Frequency and
transmission Regulatory Branch
Swiss PTT, Bern
- D M. GALLI Pier-Luigi
Engineer ETS of section Frequency
and transmission Regulatory Branch
Swiss PTT, Bern
- D M. GASSER Peter
Chief Engineer of Air Navigation
Section, Federal Air Office, Bern

Suisse (Confédération) - Switzerland
(Confederation of) - Suiza (Confederación)
(suite) - (cont.)

- D M. JEANRENAUD Maurice
Conseiller
Mission permanente de la Suisse auprès
des Organisations internationales,
Genève
- A M. SIEGFRIED Horst
Manager Air Navigation Services
SWISSAIR, Zurich
- A M. STETTLER Robert
Manager Flight Communications
SWISSAIR, Zurich

Tanzanie (République Unie de) -
Tanzania (United Republic of) -
Tanzania (República Unida de)

- C M. MGAYA F.M.
Assistant Regional Director
Telecommunications, Dar Es-Salaam
- D M. MBOYA M.
Telecommunications Officer
Civil Aviation, Dar Es-Salaam

Tchécoslovaquie (République Socialiste) -
Czechoslovak Socialist Republic -
Checoslovaca (República Socialista)

- C M. KRÁLIK Frantisek
Chef de la Section des Fréquences
Ministère des Postes et
Télécommunications, Praha
- D M. SIXTA Otakar
Technical Officer of Telecommunications
Federal Ministry of Transport
Civil Aviation Administration, Praha
- A M. CIZEK Josef
2nd Secretary, Permanent Mission of
the Czechoslovak Socialist Republic,
Geneva

Thaïlande - Thailand - Tailandia

- C M. P. SAKORN Suchart
Deputy Director General
Post and Telegraph Department,
Ministry of Communications, Bangkok
- D M. JAYANAMA Voraputhi
Counsellor, Permanent Mission of
Thailand, Geneva
- D M. LEKHYANANDA Danai
Chief of Communication Equipment
Maintenance Section, Air Navigation
Facilities Division
Department of Aviation,
Ministry of Communications, Bangkok

Tunisie - Tunisia - Túnez

- C M. CHERIF Mohamed
Ingénieur, Commandant de l'aéroport
international de Monastir-Skanes
- D M. CHAABANE Mohamed El Hedi
Chef du Bureau Central des
Télécommunications
Office des Ports Aériens de
Tunisie, Tunis Carthage
- D M. CHAARI Moncef
Chef de la Division de la Navigation
Aérienne, Office des Ports Aériens
de Tunisie, Tunis Carthage

Turquie - Turkey - Turquía

- C M. TURAN Orhan
Assistant Director of Department,
Turkish Post Office, Ankara
- D M. CEYLAN Halil
Engineer General
Directorate of PTT, Ankara
- D M. SENER Gürkan
Director of Communications
General Directorate of State Airports
DHMI, Ankara
- A M. MUTUS C.
Conseiller
Mission Permanente de la Turquie,
Genève

Union des Républiques Socialistes
Soviétiques - Union of Soviet Socialist
Republics - Unión de Repúblicas Socialistas
Soviéticas

- C M. BADALOV A.L.
Deputy-Minister
Ministry of Posts and
Telecommunications, Moscow
- CA M. KOJUKHAR E.L.
Deputy-Director
Ministry of Civil Aviation, Moscow
- CA M. MOTIN E.A.
Director of Department for
Foreign Relations
Ministry of Posts and
Telecommunications, Moscow
- D M. BOGDANOV P.A.
Chief Engineer of Department
Ministry of Posts and
Telecommunications, Moscow
- D M. EGOROV E.I.
Chief Specialist
Ministry of Posts and
Telecommunications, Moscow
- D M. EPANESHNIKOV K.V.
Deputy Director of Department
Ministry of Telecommunication Industry,
Moscow
- D M. FROLAGUIN A.I.
Assistant of the Minister
Ministry of Posts and
Telecommunications, Moscow
- D M. KOZYRITSKI Gleb
First Secretary of the Permanent
Mission of the URSS, Geneva
- D M. LIKHUSHIN Iu.P.
Chief of Section
Ministry of Posts and
Telecommunications, Moscow
- D M. LOGUINOV B.M.
Chief Engineer
Ministry of Posts and
Telecommunications, Moscow

Union des Républiques Socialistes
Soviétiques - Union of Soviet Socialist
Republics - Unión de Repúblicas Socialistas
Soviéticas (suite) - (cont.)

- D M. NOSOV M.N.
Expert
Ministry of Civil Aviation, Moscow
- D M. SAENKO Konstantin
Conseiller,
Mission permanente de l'URSS, Genève
- S Mme GOLLENDER Vera
Secretary, Ministry of Posts and
Telecommunications, Moscow
- S Mme KOTCHETKOVA Valentina
Secretary, Ministry of Posts and
Telecommunications, Moscow

Uruguay (République Orientale de l') -
Uruguay (Oriental Republic of) -
Uruguay (República Oriental del)

- C M. HEGUI FERREIRA José Ramón
Jefe Dpto. Circulación Aérea (ANTEL),
Montevideo
- CA M. PRADA Esau Pablo
Jefe Dpto. de Electrónica (ANTEL),
Montevideo
- D M. HERNÁNDEZ Rosendo
Jefe del Departamento técnico de
frecuencias radioeléctricas
Administración nacional de
telecomunicación, Montevideo

Venezuela (République de) - Venezuela
(Republic of) - Venezuela (República de)

- C M. MARTÍNEZ G. Carlos Julio
Jefe Div. Asuntos Internacionales
Ministerio de Transporte y
Comunicaciones, Caracas
- D M. ALCAZAR Nolly
Jefe Dpto. Telecomunicaciones
Aeronáutico, Dirección de Aeronáutica
Civil, Ministerio de Transporte y
Comunicaciones, Caracas

Venezuela (République de) - Venezuela
(Republic of) - Venezuela (República de)
(suite) - (cont.)

- D M. BELLORIN Jesús R.
Jefe Sección Commutación AFTN
Aeronáutica Civil, Ministerio de
Transporte y Comunicaciones, Caracas
- D M. DE LA ROSA MARRAS Miguel J.
Ingeniero electricista
Jefe sección Asignación,
Caracas
- A M. MADRIGAL Alejandro
Ingeniero Electrónico III
Ministerio de Transporte y
Comunicaciones, Caracas

Yémen (République Arabe du) - Yemen
Arab Republic - Yemen (República Árabe del)

- C M. ELZAGGAR Ahmed Hassan
Director of Technical Affairs and
Electronic Engineer, Civil Aviation
and Meteorology Authority, Sanaa
- A M. HAFEZ HASSAN Mokhtar
Yemen Airways Corporation, Sanaa

Yémen (République Démocratique Populaire du) -
Yemen (People's Democratic Republic of) -
Yemen (República Democrática Popular del)

- C M. YAFAI Omer Abdulla
Director of Aeronautical/Ground Services
Department of Civil Aviation, Aden

Yugoslavie (République Socialiste
Fédérative de) - Yugoslavia (Socialist
Federal Republic of) - Yugoslavia
(República Socialista Federativa de)

- C M. DULOVIC Ljubomir
Director,
Federal Radiocommunications Direction,
Beograd
- D M. DJUROVSKI Aleksandar
Adviser,
Federal Administration of
Civil Aviation, Beograd

Yugoslavie (République Socialiste Fédérative de) -
Yugoslavia (Socialist Federal Republic of) -
Yugoslavia (República Socialista Federativa de)
(suite) - (cont.)

D M. NEDELJKOVIĆ Ljubisa
Adviser,
Federal Radiocommunications Direction,
Beograd

D M. RAJIĆ Milija
Adviser,
Federal Radiocommunications Direction,
Beograd

Zaire (République du) - Zaire
(Republic of) - Zaire (Republica del)

C*) Citoyen YEMBI Nsampala
Sous-Directeur chargé des
Radiocommunications, Office National des
Postes et Télécommunications, Kinshasa

C**) Citoyen BOKUNGU Is'Esanga
Chef de Service, Exploitation télé-
communications aéronautiques,
Régie des Voies Aériennes, Kinshasa

D Citoyen ILUNGA DITUMBA
Directeur chargé des Télécommunications
à Air Zaire, Kinshasa

D Citoyen NSAKOBA Bola-Mbutu
Ingénieur, Régie des Voies Maritimes,
Kinshasa

D Citoyen NSUMBU Ndosimawu Zi Mbamba
Chef de Bureau d'Etudes
Transports et Communications, Kinshasa

D Citoyen OKENDA Pene Okolonga
Chef de Division Chargé des Etudes et
Projets H.F., Office National des
Postes et Télécommunications, Kinshasa

*) 21.2-4.3.1978

**) 13.2-20.2.1978

2. ORGANISATIONS INTERNATIONALES - INTERNATIONAL ORGANIZATIONS - ORGANIZACIONES INTERNACIONALES

2.1 Nations Unies - United Nations -
Naciones Unidas

Programme des Nations Unies pour l'Envi-
ronnement - United Nations Environment
Programme - Programa de la Naciones Unidas
para el medio ambiente

M. BIRYUKOV Gennady
Programme Officer, Geneva

Association du Transport aérien interna-
tional - International Air Transport
Association - Asociación de Transporte
Aéreo Internacional (IATA)

M. HARRISON P.S.
Montreal, Quebec, Canada

M. CLARK J.O.
Montreal, Quebec, Canada

2.2 Institutions spécialisées - Specialized
Agencies - Instituciones especializadas

Organisation de l'Aviation Civile inter-
ationale (OACI) - International Civil
Aviation Organization (ICAO) - Organización
de Aviación Civil Internacional (OACI)

M. LEGERE James Hance
Chief, Communications, Montreal

M. ELLIS H.E.
International Air Transport Association,
Montreal, Quebec, Canada

M. GALLEMORE L.S.
Montreal, Quebec, Canada

M. GAUTIER A.
Montreal, Quebec, Canada

M. INGLETON P.R.
Montréal, Quebec, Canada

M. SHAFER Robert
Technical Officer
Communications Section

Organisation intergouvernementale consultative de la
navigation maritime (OMCI) - Inter-Governmental
Maritime Consultative Organization (IMCO) - Organización
Consultiva Marítima Intergubernamental

M. MASSON Francis
IMCO, United Nations Petit-Saconnex Annex,
Genève

2.3 Autres Organisations - Other Organizations -
Otras Organizaciones

Agence pour la Sécurité de la Navigation
Aérienne en Afrique et à Madagascar (ASECNA)

M. KONATE Mamadou
Directeur adjoint
Navigation Aérienne
Madagascar

Union internationale des radio-amateurs -
International Amateur Radio Union (IARU) -
Unión Internacional de Aficionados de Radio

M. EATON N.B.
President, IARU

M. CLARK V.C.
Vice President, IARU

M. LARE Lari Jean
Chef Service des Telecommunications

M. BALDWIN R.L.
Secretary, IARU

M. STEVENS R.F.
Secretary, Region 1

3. SIEGE DE L'UNION - HEADQUARTERS OF THE UNION - SEDE DE LA UNION

3.1 Secrétariat général

M. M. Mili, Secrétaire général

Assistante : Mlle M. Knight

M. R.E. Butler, Vice-Secrétaire général

Assistante : Mlle P. Taillefer

M. M. Bardoux, Département du personnel

M. R.A. Provencher, Département des conférences et services communs

M. I. Uygur, Département de l'ordinateur

3.2 IFRB

M. C.W. Sowton, Président

Assistante : Mlle M. Iglesias

M. S. Fujiki, Vice-Président

Assistante : Mlle M. Pomel

M. A. Berrada, Membre

Assistante : Mme D. Phené

*) M. A. Gromov, Membre

**) M. P. Kourakov, Membre

Assistante : Mme M. Zinovieff

M. F.G. Perrin, Membre

Assistante : Mme J. Fox

M. A.A. Matthey, conseiller supérieur

M. R. Pluss, conseiller

Mlle G. L'Eplattenier, secrétaire exécutif

3.3 CCIR

M. R.C. Kirby, Directeur

Assistante : Mlle S. Frankel

M. N.V. Gadadhar, conseiller supérieur

M. Y.Y. Mao, conseiller supérieur

M. J. Rutkowski, conseiller supérieur

Assistante : Mme K. Wagner

M. Ch. Stettler, conseiller

3.4 CCITT

M. L. Burtz, Directeur

*) jusqu'au 12 février 1978

**) depuis le 13 février 1978

4. SECRETARIAT DE LA CONFERENCE - CONFERENCE SECRETARIAT -
SECRETARÍA DE LA CONFERENCIA

4.1 Secrétaire de la Conférence : M. M. Mili, Secrétaire général
Secrétaire exécutif : M. A. Winter-Jensen
Secrétaire technique : M. G.C. Brooks
Chef du Département des
relations extérieures,
conseiller juridique : M. M. Ibnou Zékri

4.2 Séances plénières, commissions

Séance plénière : M. A. Zaccagnini
Commission 1 : M. A. Zaccagnini
Commission 2 : M. A. Winter-Jensen
Commission 3 : M. R. Prélaz
Commission 7 : M. R. Macheret

Assistantes : Mlle R. Einhorn
Mme J. Gautheret
Mlle S. Petter
Mlle F. Peysson
Mlle D. Service
Mme J. Teyssier

4.3 Division technique

M. G.C. Brooks, Secrétaire technique

Assistante : Mme J. Simic

Commission 4 : M. L. Sonesson
Commission 5 : M. M. Sant
Commission 6 : M. M. Ahmad

Assistés de : Mme B. Arnold
Mlle M.L. Arocena
M. T. Bahi
M. J. Balfroid
M. C. Glinz
M. L.S. Huang
M. M. Khabiri
M. J.J. Koehli
M. H. Meyerhoff
M. J. Pelegri
Mme R. Reinhard
M. G. Renn
Mme M.C. Revenga
M. E. Robinson
M. G. Serlooten
M. A. Sigrist
M. L. Tiguine
M. J. Wyss

4.4 Division "Services de la Conférence"

Secrétaire administratif	: M. U. Petignat
Relations avec la presse / information publique	: M. R. Fontaine
Division linguistique	: M. J. Revoy
- Traduction française	: M. M. Brodsky
- Traduction anglaise	: M. T. Jones
- Traduction espagnole	: Mlle M.A. Delgado
Service des interprètes	: Mme M. Johner
Service des procès-verbalistes	: Mlle J. Barley
Inscription des délégués	: Mme H. Di Rosa
Salles	: Mme M. Grand
Contrôle des documents	: Mme L. Jeanmonod
Sténodactylographie, composition de textes	: M. J. Escudero
Reprographie	: M. R. Probst M. P. Constantin M. A. Schaffner
Renseignements	: Mme M.M. de Rejod
Economat	: M. J. Barreau
Distribution des documents.	: M. C. Boccard
Messagers	: M. C. Glappey
Huissiers	: M. G. Brunet

AERONAUTICAL (R) CONFERENCE**(Geneva, 1978)**

Document No. 364-E

24 March 1978

FINAL LIST OF DOCUMENTSA. Basic documents of the Conference

	Doc. No.		Doc. No.
<u>Conference Chairmen and Vice-Chairmen</u>	86(Rev.)	<u>Committee 3 (Budget Control Committee)</u>	
<u>Terms of reference of Committee</u>	76	<u>Summary records</u>	
<u>List of participants</u>	363	1st Meeting	141
<u>Plenary Meeting</u>		2nd "	326
<u>Minutes</u>		<u>Report</u>	
1st Meeting	166	Final Report	261
2nd "	301	<u>Committee 4 (Technical)</u>	
3rd "	325	<u>Summary Records</u>	
4th "	346	1st Meeting	128
5th "	347	2nd "	195
6th "	348	3rd "	208
7th "	349	4th "	230 + Corr.
8th "	350	<u>Report</u>	
9th "	351	Report	181
10th "	352	<u>Committee 5</u>	
11th "	353	<u>Summary Records (Planning)</u>	
12th "	354	1st Meeting	146
Signing Ceremony	355	2nd "	147
<u>Committee 1 (Steering Committee)</u>		3rd "	149
<u>Committee 2 (Credentials Committee)</u>		4th "	231 + Corr.
<u>Summary Records</u>		5th "	292
1st Meeting	127	6th "	340
2nd "	226	7th "	341
<u>Report</u>		8th "	356
Report	250	9th "	357
		10th "	358
		11th "	359
		<u>Reports</u>	
		1st Report	165
		2nd "	248
		3rd "	295
		4th "	321 + Corr.
		5th "	333



	Doc. No.		Doc. No.
<u>Committee 6 (Regulatory Procedures)</u>			
<u>Summary Records</u>			
1st Meeting	229		
2nd "	259		
3rd "	267		
4th " .	264		
5th "	335		
6th "	360		
7th "	361		
8th "	362		
<u>Reports</u>			
1st Report	204		
2nd "	224		
3rd "	237		
4th "	260		
5th "	294		
6th "	315		

B. The attached Annex contains the complete List of Documents in numerical order.

Annex : 1

A N N E XLIST OF DOCUMENTS

C = Committee
PL = Plenary
WG = Working Group

Number	Source	Title	Destination
1	SG	Agenda of the Conference	PL
2 + Add	SG	Report by CCIR Study Group 8	C.4
3	SG	Credentials of Delegations	C.2
4 + Corr.	USA	Proposals	C.4, 5, 6
5	F.R. of Germany	Proposals	C.4, 5, 6
6	F.R. of Germany	Proposals	C.5
7	F.R. of Germany	Proposals	C.5
8	F.R. of Germany	Proposals	C.5, 6
9	F.R. of Germany	Proposal	C.6
10	F.R. of Germany	Proposals	C.6
11	F.R. of Germany	Proposal	C.6
12	F.R. of Germany	Proposals	C.6
13	F.R. of Germany	Proposals	C.6
14	F.R. of Germany	Proposals	C.6
15	F.R. of Germany	Proposals	C.6
16	F.R. of Germany	Proposals	C.6
17	F.R. of Germany	Proposal	C.6

Number	Source	Title	Destination
18	F.R. of Germany	Proposal	C.4, 5
19	German Dem. Rep.	Changes of the present Appendix 27 to the Radio Regulations	C.5
20	Canada	Proposals	C.4, 5, 6
21	SG	ICAO Communications Divisional Meeting preparatory to the ITU WARC Aeronautical Mobile (R) Service	C.4, 5, 6
22	France	Proposal	C.4, 5, 6
23	France	Proposal	C.5
24	France	Proposal	C.4
25	USA	A suggested method for the transition to universal single sideband operation in the Aeronautical Mobile (R) Service	C.5, 6
26	USA	Requirements for "worldwide" frequency allotments to accommodate long-range aeronautical operational control communications	C.5
27	USA	Worldwide aeronautical operational control	C.5, 6
28	SG	Development of computer programme	C.4
29	USSR	Proposals	C.4, 5, 6
30	F.R. of Germany	Frequency requirements	C.5
31	Australia	Proposals	C.4
32	Australia	Description of the boundaries of the regional and domestic air route areas	C.5
33	Mauritius	Proposals	C.4, 5, 6
34 (Rev.)	Switzerland	Proposal	C.4, 5, 6
35	SG	Budget of the conference	C.3

Number	Source	Title	Destination
36	SG	Contributions of Recognized Private Operating Agencies and Non-Exempt International Organizations	C.3
37	Denmark	Proposal	C.5
38	SG	Convening of the Conference	PL
39	USA.	RDARA Requirements	C.5
40 + Add.	SG	Notifications to International Organizations	PL
41	SG	Invitations to the Conference	PL
42	Australia	Proposals	C.4
43	United Kingdom	Proposals	C.4, 5, 6
44 + Corr.	Japan	Proposals	C.4, 5, 6
45 + Corr.	New-Zealand	Amendments proposed for the description of the boundaries of the MWARA, RDARA, SUB-RDARA and VOLMET areas contained in Part II, Section I, Appendix 27 to the Radio Regulations	C.5
46	Canada	Allotment of frequencies from the band 21 870-22 000 kHz for inclusion in appendix 27	C.5, 6
47	SG	Report of the IFRB on the implementation of the decisions of the extraordinary Administrative Radio Conference for the Aeronautical Mobile (R) Service, Geneva, 1966	PL
48 + Add.	SG	Collation and analysis of information received concerning frequency requirements	C.5
49 + Add.	SG	Method developed by the IFRB for revision of the frequency allotment Plan contained in appendix 27 to the Radio Regulations	C.4, 5
50	Australia	Determination of future high frequency AM(R)S RDARA-14 requirements	C.5

Number	Source	Title	Destination
51	USA	Adjacent channel interference	C.4, 5
52 + Corr.	USA	RDARA boundary descriptions and allotment requirements	C.5
53 + Corr.	China	Proposals on the amendments to the descriptions of the boundaries of the MWARAs, RDARAs and VOLMET areas in appendix 27 to the Radio Regulations	C.5
54	Philippines	Proposal	C.6
55	Philippines	Description of the boundaries of the regional and domestic air route area (RDARA)	C.4, 5
56	Zaire	Proposals	C.4, 5, 6
57	SG	Special programme for monitoring the frequency bands between 2850 kHz and 17,970 kHz allocated exclusively to the Aeronautical Mobile (R) Service	C.6
58 + Corr. 142	SG	Loss of the right to vote	PL
59	USA	Information received concerning frequency requirements	C.5
60	Argentine	Proposals	C.4, 5, 6
61(Rev.1)	Spain	Proposals	C.6
62	Spain	Proposal	C.4, 5, 6
63 + Corr.	Spain	Proposal	C.6
64 + Corr.	Spain	(Replaced by No. 67)	
65 + Corr.	Brazil	Proposals	C.4, 5, 6
66	SG	Documents of Study Group 8 of the CCIR	C.4
67	Spain	Proposals	C.4, 5, 6
68	Canada	Requirement for the inclusion of the band 21 870-22 000 kHz in appendix 27	PL
69	German Democratic Rep.	Proposals	PL

Number	Source	Title	Destination
70	India	RDARA requirements for areas 5 and 6 and for sub-areas 6A, 6E, 5B and 5C	C.5
71	Ireland	Proposals	C.5
72	Cuba	Information on frequency requirements	C.5
73	SG	Secretariat of the Conference	—
74	Papua New Guinea	Adjacent channel interference	C.4, 5
75	Papua New Guinea	Proposal for frequency stability requirement for national purpose	C.4, 6
76	SG	Structure of the aeronautical (R) Conference 1978	—
77	SG	Allocation of documents	—
78	Algeria	Proposals	C.5, 6
79	Mexico	Frequency requirements	C.5
80	Sweden	Proposals	C.5, 6
81	Ivory Coast	Frequency requirements	C.5
82 + Add.	Argentina & Uruguay	Description of the boundaries of the SAT-MET (Rio de la Plata) area	C.5
83	USA	Frequency tolerances	C.4
84	Bolivia	Proposals	C.5
85	Malaysia	Description of the boundaries of the regional and domestic air route areas (RDARA)	C.5
86(Rev.)	PL	Conference Chairman and Vice-Chairmen	—
87	Angola	RDARA boundary descriptions and allotment requirements	C.5
88	United Kingdom	Allotment of frequencies from the band 21 870 - 22 000 kHz for inclusion in appendix 27	C.5, 6
89	Papua New Guinea	Proposal for inclusion of families of frequencies for national flight regularity within the frequency allotment plan for the aeronautical mobile (R) services	C.5, 6

Number	Source	Title	Destination
90	Papua New Guinea	Proposals to facilitate a changer over to the provisions of the Final Acts	C.6
91(Rev.)	Saudi Arabia	Frequency requirements	C.5, 6
92	Sweden	Frequency requirements	C.5
93	Paraguay	Frequency requirements for long dis- tance operational control and VOLMET	C.4, 5
94	Kenya	Frequency requirements	C.5
95	Tanzania	Proposals	C.5
96	Denmark	Requirements for long distance opera- tional control	C.5
97	Spain	Proposal	C.5
98	Gabon	Frequency requirements	C.5
99	Yemen A.R.	Frequency allotment for the RDARA sub- area 5A	C.5
100	Yemen A.R.	Frequency requirements	C.5
101	Norway	Frequency requirements for MWARA, Sub-RDARA and the World-Wide Long Distance Operational Control Service	C.5
102	Japan	Proposals	C.5
103	Argentina	Frequency requirements	C.5
104	Tunisia	Frequency requirements	C.5
105	Saudi Arabia	Proposal for amendments to boundaries of MWARA (MID)	C.5
106	Fiji	Frequency requirements	C.5
107	Cameroon	Frequency requirements	C.5
108	Rep.of Guinea	Frequency requirements	C.5
109	Uruguay	Frequency requirements additional to those requested in reply to IFRB Circular Letter No. 386	C.5
110	Uruguay	Proposals	C.5
111	Mauritius	Revised frequency requirements	C.5
112	Italy	Frequency requirements	C.5

Number	Origin	Title	Destination
113	Angola	Amendments to Document No. 87 (RDARA boundary descriptions and allotment requirements)	C.5
114	Senegal	Frequency requirements	C.5
115	Sao Tome and Principe	Frequency requirements	C.5
116	Colombia	Proposal	C.5
117	Colombia	Proposal	C.5
118	Roumania	Frequency requirements for MWARA NCA	C.5
119(Rev.)	Algeria	Change in the boundaries of MWARA-AFI	C.5
120 + Rev.	Upper Volta	Frequency requirements	C.5
121	Spain	Information on frequency requirements	C.5
122	Ecuador	Frequency requirements	C.5
123	Panama (Rep. of)	Proposals	C.5
124	Brazil	Frequency requirements	C.5
125	C.6	Note from the Chairman of Committee 6 to Chairmen of Committee 4 and Committee 5	C.4, 5
126(Rev.)	WG 4A	Report of the Working Group 4A to Committee 4	C.4
127	C.2	Summary record of the first meeting of Committee 2 (Credentials)	C.2
128	C.4	Summary record of the first meeting of Committee 4 (Technical)	C.4
129	Niger	Proposal	C.4
130	Algeria, Cameroon, (Guinea (Rep. of), Ivory Coast, Kenya, Niger, Nigeria, Mauritania, Senegal	Requirements for families of frequencies for MWARA-AFI	C.5

Number	Origin	Title	Destination
131	Brazil	Boundaries of the MWARA-SAT	C.5
132	WG 4B	First report of Working Group 4B to Committee 4	C.4
133(Rev.)	Norway	Maps of the Polar Regions	C.4
134	WG 4B	Second report of Working Group 4B to Committee 4	C.4
135	Uruguay and Brazil	Proposals	C.4, 5
136	United Kingdom	Frequency Band 21 870-22 000 kHz	C.4, 5
137	WG 4A	Second Report of Working Group 4A to Committee 4	C.4
138	United Kingdom	Resolution relating to the use of higher frequency bands in the Aeronautical Mobile (R) Service for communication and meteorological broadcasts	C.6
139	United States	Principles for the transition to Appendix 27 (Rev.)	C.4, 5, 6
140	United States	Resolution relating to the transition to the Frequency Allotment Plan in the high frequency bands allocated exclusively to the Aeronautical Mobile (R) Service between 2 850 and 17 970 kHz in Appendix 27(Rev.)	C.4, 5, 6
141	C.3	Summary record of the first meeting of Committee 3 (Budget control)	C.3
142	Yemen (P.D.R.)	Extension of Mid-MWARA Southern boundary	C.5
143(Rev.)	Yemen (P.D.R.)	Extension of RDARA 5A boundary	C.5
144	WG 6A	First Report of Working Group 6A	C.6
145	WG 6A	Second Report of Working Group 6A - Public correspondence	C.6
146	C.5	Summary record of the first meeting of Committee 5 (Planning)	C.5
147	C.5	Summary record of the second meeting of Committee 5 (Planning)	C.5

Number	Origin	Title	Destination
148	WG 6A	Third report of the Working Group 6A Resolutions and Recommendations	C.6
149	C.5	Summary record of the third meeting of Committee 5 (Planning)	C.5
150	German Dem.Rep.	Frequency Band 21 870 - 22 000 kHz	C.5
151	Netherlands	Proposals	C.5
152	Argentina	Frequency requirement in the 21 870 - 22 000 kHz Band	C.4, 5
153	Peru	Proposals	C.5
154	Egypt	Proposals	C.6
155	WG C.2	First Report of Working Group of Committee 2 (Credentials)	C.2
156	WG 5A	Report of Working Group 5A	C.5
157	India	Frequency band 21 870 - 22 000 kHz	C.5
158	Afghanistan	Frequency band 21 870- 22 000 kHz	C.5
159	WG 4B	Third and final report from Working Group 4B to Committee 4	C.4
160	WG 6A	Fourth Report of Working Group 6A	C.6
161	Paraguay	Frequency requirement in the 21 870- 22 000 kHz band	C.4, 5
162	Greece	Frequency requirement in the 21 870- 22 000 band	C.5
163	Roumania	Frequency band 21 870-22 000 kHz	C.5
164(Rcv.3)	WG 5B	Frequency requirements for major world air route areas	C.5
165	C.5	First Report of Committee 5 to the Plenary	PL, C.7
166	PL	Minutes of the first Plenary Meeting	PL
167	Bolivia	Proposed modification to existing RDARA-13	C.5

Number	Origin	Title	Destination
168	Paraguay	Proposed modification to existing RDARA-13	C.5
169	C.4	Note from the Chairman of Committee 4 to the Chairman of Committee 7	C.7
170	C.4	Note from the Chairman of Committee 4 to the Chairmen of Committees 5 and 6	C.5, 6
171	Australia	Frequency band 21 870-22 000 kHz	C.5
172	Egypt	Frequency band 21 870-22 000	C.5
173	Yugoslavia	Frequency requirements in the 22 000 kHz band	C.5
174	Portugal	Frequency band 21 870 - 22 000 kHz	C.5
175	WG 6A	Fifth Report of Working Group 6A : Resolutions and Recommendations	C.6
176	WG 6A	Sixth Report of Working Group 6A	C.6
177	WG 6B	First Report of Working Group 6B to Committee 6	C.6
178	Ethiopia	Frequency band 21 870 - 22 000 kHz	C.5
179	Nigeria	Frequency requirements in the 21 970 - 22 000 kHz band	C.5
180	United Kingdom & United States	Modification to article 9 and to Appendix 27	C.6
181	C.4	Report of Committee 4 to the Plenary Meeting	PL
182	Saudi Arabia	Frequency requirements in the 21 870 - 22 000 kHz band	C.5
183	ICAO	ICAO's role in the transition process	C.6
184	Japan	Frequency requirements in the 22 000 kHz band	C.5
185(Rev.)	WG 5B	Frequency requirements for VOLMET areas	C.5
186	C.6	Report of C.6 Drafting Group to C.6	C.4, 5, 6
187	Cameroon	Frequency allotment in the band 21 870-22 000 kHz	C.5

Number	Origin	Title	Destination
188	United States	Frequency requirements in the 21 870-22 000 kHz band	C.5
189	Spain and Switzerland	Draft Recommendations relating to public correspondence with aircraft	C.6
190	Yemen A.R.	Frequency requirements	C.5
191	Syrian A.R.	Frequency requirements in the 22 000 kHz band	C.5
192	C.6	Resolution relating to the use of higher frequency bands in the Aeronautical Mobile (R) Service and the Aeronautical Mobile-Satellite (R) Service for communication and for meteorological broadcasts	C.6
193	Pakistan	Frequency requirements in the 22 000 kHz band	C.5
194	Bolivia	Frequency requirements in the band 21 870 - 22 000 kHz	C.5
195	C.4	Summary record of the second meeting of C.4 (Technical)	C.4
196	Philippines	Frequency requirements in the 22 000 kHz band	C.5
197	Dem. People's Rep. of Korea	Frequency requirements in the 21 870 - 22 000 kHz band	C.5
198	Angola	Amendments to documents No. 87 and No. 113	C.5
199	WG 6B1	Report on Drafting Group 6B1	WG 6B
200	Paraguay	Amendment to Documents Nos. 165 and 168	C.5, 7

Number	Origin	Title	Destination
201	Kuwait	Frequency band 21 870 - 22 000 kHz	C.5
202	Senegal	Frequency requirements in the band 21 870 - 22 000 kHz	C.5
203	Bangladesh	Frequency band 21 870 - 22 000 kHz	C.5
204	C.6	First Report of Committee 6	PL, C.7
205	Turkey	Frequency requirements in the 22 000 kHz band	C.5
206	C.7	Summary Record of the First Meeting of Committee 7 (Editorial)	C.7
207(Rev.2)	WG 5B	Frequency requirements for RDARAs	C.5
208	C.4	Summary Record of the Third Meeting of Committee 4 (Technical)	C.4
209	Poland	Frequency requirements in the band 21 870 - 22 000 kHz	C.5
210	Thailand	Frequency requirement in the 22 000 kHz band	C.5
211	United States	Excerpts from ICAO guidance for frequency management of operational control communications	C.6
212	United Arab Emirates	Frequency band 21 870 - 22 000 kHz	C.5
213	Korea (Rep.of)	Frequency requirements in the 22 000 kHz band	C.5
214	Cuba	Frequency requirements in band 21 870 - 22 000 kHz	C.5
215	Spain	Frequency requirements in the 21 870 - 22 000 kHz band	C.5

Number	Origin	Title	Destination
216	Zaire	Consideration of proposals by the People's Democratic Republic of Angola ; RDARA boundary descriptions and allotment requirements	C.5
217(Rev.1)	WG 6A	Note from the Chairman of WG 6A	C.6
218	Yemen P.D.R.	Frequency requirements	C.5
219	Fiji	Frequency requirements in the band 21 870 - 22 000 kHz	C.5
220	C.5	Note from the Chairman of Committee 5 to the Chairman of Committee 7	C.7
221	C.5	Note from the Chairman of Committee 5 to the Chairman of Committee 6	C.6
222	Bulgaria	Frequency requirements in the 22 000 kHz band	C.5
223	Egypt	Frequency requirement in the 21 870 - 22 000 kHz band	C.5
224	C.6	Second Report of Committee 6	PL, C.7
225	C.5	Time-table of the work of Committee 5	C.5, WG 5A, WG 5B, WG 5C
226	C.2	Summary Record of the Second Meeting of Committee 2 (Credentials)	C.2
227	Qatar	Frequency requirements in the band 21 870 - 22 000 kHz	C.5
228	WG C.6	Report of Committee 6 Drafting Group to Committee 6	C.6
229	C.6	Summary Record of the First Meeting of Committee 6 (Regulatory procedures)	C.6
230 + Corr.	C.4	Summary Record of the Fourth and last Meeting of Committee 4 (Technical)	C.4
231 + Corr.	C.5	Summary Record of Fourth Meeting of Committee 5 (Planning)	C.5

Number	Origin	Title	Destination
232	USSR	Frequency requirement in the 21 870 - 22 000 kHz band	C.5
233 + Add.1	WG 6B	Second Report of Working Group 6B to Committee 6	C.6
234(Rev.1)	WG 5C	Report of Working Group 5C	C.5
235	Turkey & Syrian Arab Republic	Amendments to the limits of RDARA Sub-Area 1D	C.5
236	Panama	Frequency requirements in the band 21 870 - 22 000 kHz	C.5
237	C.6	Third Report of Committee 6	PL, C.7
238	Iran	Frequency requirements in the 21 870 - 22 000 kHz band	C.5
239	C.7	B1	PL
240	Denmark, Norway and Sweden	Draft Recommendation relating to the use of frequencies for exercising control over regularity of flight and for safety of aircraft	C.6
241	Democratic People's Rep. of Korea	Final Protocol	PL
242	People's Demo- cratic Rep. of Yemen	RDARA 5A Boundaries	C.5
243	Canada and Ireland	Frequency separation required between assigned frequencies at aeronautical stations for the avoidance of local interchannel interference	C.6
244 + Add.1	WG 6 <u>Ad hoc</u>	Report of Working Group 6 <u>Ad hoc</u> set up to draft procedures for use of frequencies designated for world-wide use	C.6
245	C.7	B2	PL
246	C.7	B.3	PL

Number	Source	Title	Destination
247	WG 6B	Third and last Report of Working Group 6B to Committee 6	C.6
248	C.5	Second Report of Committee 5	PL, C.7
249	WG C.2	Second Report of Working Group of Committee 2 - Credentials	C.2
250	C.2	Report of Committee 2 to the Plenary	PL
251	Yemen Arab Republic	Final Protocol	PL
252	Japan	World-wide allotment areas and associated frequency requirements	C.5, C.6
253	Senegal	Final Protocol	PL
254	People's Dem. Rep. of Yemen	Final Protocol	PL
255	Venezuela	Final Protocol	PL
256	Cameroon	Final Protocol	PL
257	Algeria	French translation of Provision No. 27/20 (Appendix 27 Aer2) from the English	PL
258	Argentine	Final Protocol	PL
259	C.6	Summary Record of the Second Meeting of Committee 6 (Regulatory Procedures)	C.6
260	C.6	Fourth Report of Committee 6	PL, C.7
261	C.3	Final Report of the Budget Control Committee to the Plenary	PL
262 (Rev.)	C.7	R.1	PL
263	C.6	Drafting Group of Committee 6	C.6
264	C.6	Summary Record of the Fourth Meeting of Committee 6	C.6

Number	Source	Title	Destination
265	C.6	Note from the Chairman of Committee 5 to the Chairman of Committee 6	C.6
266	Finland, Norway & Sweden	World-wide allotment areas and associated requirements	C.5
267	C.6	Summary Record of the Third Meeting of Committee 6 (Regulatory Procedures)	C.6
268	Malaysia	Final Protocol	PL
269 + Add.	Mexico	Final Protocol	PL
270	Gabon	Final Protocol	PL
271	Libya	Final Protocol	PL
272	Ivory Coast	Final Protocol	PL
273	Iran	Final Protocol	PL
274	Mauritania	Final Protocol	PL
275	Afghanistan	Final Protocol	PL
276	Panama	Final Protocol	PL
277	Kenya	Final Protocol	PL
278	Brazil	Final Protocol	PL
279	Cuba	Final Protocol	PL
280	Uruguay	Final Protocol	PL
281	India	Final Protocol	PL
282	Saudi Arabia	Final Protocol	PL
283	WG C.6	Report of the Ad hoc Drafting Group of Committee 6	C.6
284	Bolivia	Final Protocol	PL
285	C.7	B.4	PL

Number	Source	Title	Destination
286	Paraguay	Final Protocol	PL
287	Thailand	Final Protocol	PL
288	Philippines	Final Protocol	PL
289	Nigeria	Final Protocol	PL
290	Guinea	Final Protocol	PL
291	Singapore	Final Protocol	PL
292	C.5	Summary Record of the Fifth Meeting of Committee 5 (Planning)	C.5
293	C.7	R.2	PL
294	C.6	Fifth Report of Committee 6	PL, C.7
295	C.5	Note by Chairman of Committee 5	PL
296	Upper Volta	Final Protocol	PL
297	Liberia	Final Protocol	PL
298	Indonesia	Final Protocol	PL
299	Colombia	Final Protocol	PL
300	Spain	Final Protocol	PL
301	PL	Minutes of the Second Plenary Meeting	PL
302	Sao Tome and Principe	Final protocol	PL
303	Norway	Final protocol	PL
304	Pakistan	Final protocol	PL
305	Zaire	Final protocol	PL
306	Tanzania	Final protocol	PL
307	C.7	B.5	PL
308 + Add.	C.7	B.6	PL
309	C.7	R.3	PL
310	Guatemala	Final protocol	PL

Number	Source	Title	Destination
311	Algeria, Saudi Arabia, Bahrain, Bangladesh, Kuwait, Libya, Morocco, Mauri- tania, Pakistan, Qatar, Syrian Arab Rep., Tunisia, Yemen (A.R.) and Yemen (P.D.R.)	Final protocol	PL
312	Chile	Final protocol	PL
313	Ecuador	Final protocol	PL
314	Algeria	Final protocol	PL
315	C.6	Sixth and last report of Committee 6	PL, C.7
316	Bangladesh	Final p otocol	PL
317	Syrian Arab Rep.	Final protocol	PL
318	Ethiopia	Final protocol	PL
319	Fed. Rep. of Germany, Denmark, Greece, Norway, Sweden and Switzerland	Final protocol	PL
320	Korea (Rep. of)	Final protocol	PL
321 + Corr.	C.5	Fourth report of Committee 5	PL, C.7
322	Dem. People's Rep. of Korea	Final protocol	PL
323	China	Final protocol	PL
324	C.7	B.7	PL
325	PL	Minutes of the third Plenary Meeting	PL
326	C.3	Summary record of the second and last meeting of Committee 3	C.3
327	C.7	B.8	PL

Number	Source	Title	Destination
328	S.G.	Final protocol	PL
329	S.G.	Final protocol	PL
330	U.S.S.R.	Final protocol	PL
331	India	Final protocol	PL
332	Argentine	Proposals for the work of Committee 5	C.5
333	C.5	Fifth report of Committee 5	PL, C.7
334	Japan	Final protocol	PL
335	C.6	Summary record of the fifth meeting of Committee 6	C.6
336	Rep. of Korea	Final protocol	PL
337	C.5	Fourth draft plan	C.5
338	Yemen (A.R.)	Final protocol	PL
339	Yemen (P.D.R.)	Final protocol	PL
340	C.5	Summary record of the sixth meeting of Committee 5	C.5
341	C.5	Summary record of the seventh meeting of Committee 5	C.5
342	C.5	Recommendation relating to 27/123 of Appendix 27 - Aer2 (sub-area 5B)	PL
343	Saudi Arabia	Final Protocol	PL
344	C.5	World-wide allotment areas	PL, C.7
345 (Rev)	C.5	Frequency Allotment Plan	C.5
346	PL	Minutes of the fourth Plenary Meeting	PL
347	PL	Minutes of the fifth Plenary Meeting	PL
348	PL	Minutes of the sixth Plenary Meeting	PL
349	PL	Minutes of the seventh Plenary Meeting	PL

Number	Source	Title	Destination
350	PL	Minutes of the eighth Plenary Meeting	PL
351	PL	Minutes of the ninth Plenary Meeting	PL
352	PL	Minutes of the tenth Plenary Meeting	PL
353	PL	Minutes of the eleventh Plenary Meeting	PL
354	PL	Minutes of the twelveth Plenary Meeting	PL
355	PL	Minutes of the signing Ceremony	PL
356	C.5	Summary record of the eighth meeting of Committee 5	C.5
357	C.5	Summary record of the ninth meeting of Committee 5	C.5
358	C.5	Summary record of the tenth meeting of Committee 5	C.5
359	C.5	Summary record of the eleventh and last meeting of Committee 5	C.5
360	C.6	Summary record of the sixth meeting of Committee 6	C.6
361	C.6	Summary record of the seventh meeting of Committee 6	C.6
362	C.6	Summary record of the eighth and last meeting of Committee 6	C.6
363	-	List of participants	-
364	-	Final list of documents	-