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INTERNATIONAL

HIGH FREQUENCY BROADCASTING

AGREEMENT

Mexico City, 1949

FINAL
PROTOCOL

ANNEXED TO

THE INTERNATIONAL HIGH FREQUENCY

BROADCASTING AGREEMENT

MEXICO CITY PLAN

OF THE DISTRIBUTION OF CHANNEL HOURS

FOR HIGH FREQUENCY BROADCASTING

ANNEXED TO THE INTERNATIONAL

HIGH FREQUENCY BROADCASTING AGREEMENT

BASIC PLAN

INTERNATIONAL TELECOMMUNICATION UNION, GENEVA

April 1949



Note of the General Secretariat of the I.T.U.

The following divergencies were found between the English text of the Mexico City Agreement and the French text which is authoritative:

Page 24, § 5, 3rd line, read:, and, in the interest of these administrations, ask all administrations

Page 28, III. Terms of reference, a), 5th-6th lines, read: This index shall be determined by the T.P.C.

Page 31, c), (1), 1st line, read: Readjustment of the assignments

Page 32, VI. Relations of the T.P.C. with administrations. b), 5th line, read:, which will be entered on the attached Form B.

Page 37, Article 15, Additional provision, 2nd line, read: in cases not covered by the Rules of Procedure of the T.P.C...

Page 37, Decisions of the international high frequency, a) 5th-7th lines, read: ... or which categories of services should be accorded priority;

Page 60, Appendix 2, Recommendations to the C.C.I.R., 3., §2, 2nd line, read: correction of protection that should be made

Geneva, October 1949.



I N T E R N A T I O N A L

H I G H F R E Q U E N C Y B R O A D C A S T I N G

A G R E E M E N T

Mexico City 1949

F I N A L

P R O T O C O L

ANNEXED TO

THE INTERNATIONAL HIGH FREQUENCY

BROADCASTING AGREEMENT

M E X I C O C I T Y P L A N

OF THE DISTRIBUTION OF CHANNEL HOURS

FOR HIGH FREQUENCY BROADCASTING

ANNEXED TO THE INTERNATIONAL

HIGH FREQUENCY BROADCASTING AGREEMENT

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I N T E R N A T I O N A L

H I G H F R E Q U E N C Y B R O A D C A S T I N G A G R E E M E N T

concluded at Mexico City among the Following Countries:

Argentine Republic; Commonwealth of Australia; Austria; Belgium; Bolivia; Brazil; Canada; China; State of the Vatican City; Republic of Colombia; Portuguese Colonies; Colonies, Protectorates, Overseas Territories and Territories under Mandate or Trusteeship of the United Kingdom of Great Britain and Northern Ireland; Belgian Congo and Territories of Ruandi Urundi; Cuba; Denmark; Dominican Republic; Egypt; Ecuador; Finland; France; Republic of Honduras; India; Indonesia; Iran; Ireland; Iceland; Italy; Luxembourg; Mexico; Monaco; Nicaragua; Norway; New Zealand; Pakistan; Panama; Paraguay; Netherlands, Curacao and Surinam; Peru; Portugal; French Protectorates of Morocco and Tunisia; Southern Rhodesia; United Kingdom of Great Britain and Northern Ireland; Sweden; Switzerland (Confederation of); Syria; Overseas Territories of the French Republic and Territories administered as such; Turkey; Union of South Africa and the mandated territory of South-West Africa; Oriental Republic of Uruguay; United States of Venezuela.

The undersigned, delegates of the above-mentioned countries, participants in the International High Frequency Broadcasting Conference of Mexico City, in conformity with the directives of the International Telecommunication Conference of Atlantic City (1947), and pursuant to the recommendations made by the High Frequency Broadcasting Conference of Atlantic City (1947), have adopted, on behalf of their respective countries and subject to approval by the Governments thereof, the provisions concerning high frequency broadcasting which appear in this Agreement.

Article 1

DEFINITIONS

In this Agreement,

the term "Parties to this Agreement" denotes the entirety of the countries and groups of territories which have approved or accepted this Agreement in accordance with the provisions of Article 3 of this Agreement, after the entry into force of this approval or acceptance;

the term "International Telecommunication Convention" or the word "Convention" denotes the International Telecommunication Convention signed at Atlantic City in 1947 or any revision made thereto, after the entry into force of such revision;

the term "Radio Regulations" denotes the Radio Regulations signed at Atlantic City in 1947 or any revision made thereto, after the entry into force of such revision;

the term "Phase of the Plan" denotes a schedule of channel hour assignments based upon the propagation conditions of a particular season of the year during a particular period of solar activity characterized by a definite number of sun-spots;

the term "Basic Plan" denotes the Plan, including the Preamble thereto, prepared at Mexico City for the June Median phase (70 sunspots);

the term "Mexico City Plan" denotes the entirety of the phases of the Plan, including the Preamble to the Basic Plan, which will have been annexed to this Agreement by the time of its entry into force;

the initials "I.F.R.B." designate the International Frequency Registration Board referred to in Article 4 of the International Telecommunication Convention;

the initials "C.C.I.R." designate the International

Radio Consultative Committee referred to in Article 4 of the International Telecommunication Convention;

the words "Secretary General of the Union" or "Secretary General" denote the Secretary General of the International Telecommunication Union.

the word "Administration" is taken to mean the same as is stipulated in the following definition from the Atlantic City Convention: "Any department or service of a government responsible for implementing the obligations undertaken in the International Telecommunication Convention and the Regulations annexed thereto".

Article 2

EXECUTION OF THE AGREEMENT AND THE PLAN

- a) The Parties to this Agreement shall apply the provisions of this Agreement and of the Mexico City Plan, which is an integral part thereof.
- b) The Parties undertake to use only those frequencies which are assigned to them in the Plan, at the hours and under the technical conditions specified therein.
- c) This obligation binds Parties to this Agreement only in respect to one another and in respect to countries which comply with this Agreement in conformity with the provisions of Article 4 of this Agreement.
- d) Changes in the use of frequencies and time-tables may be authorized in accordance with the provisions of Article 9.
- e) The Parties undertake to change from one phase of the Plan to another at the date and time which will be indicated by the Organization charged with the implementation of the Plan.

Article 3

APPROVAL AND ACCEPTANCE OF THE AGREEMENT

a) This Agreement shall be subject to approval by the governments of the signatory countries; this approval shall contain no reservation which has not been annexed to the Agreement by the time of its signature.

b) This Agreement shall be open to acceptance by or on behalf of any country or group of territories listed in Annex 1 of the International Telecommunication Convention of Atlantic City, and by any country which accedes to the Convention in accordance with the procedure for such accession. This acceptance, which makes this country a Party to this Agreement, shall contain no reservation.

c) The instrument of approval or acceptance of this Agreement shall be addressed to the Secretary General, who will immediately so inform the countries listed in Annex 1 of the Atlantic City Convention and those which have acceded to the Convention.

The approval and acceptance shall take effect as of the day of receipt of such notification by the Secretary General.

Article 4

COMPLIANCE WITH THE AGREEMENT BY COUNTRIES INELIGIBLE TO BECOME PARTIES

Countries which are ineligible to become parties to this Agreement in accordance with the provisions of Article 3, and to which channel hours have been specifically assigned in the Mexico City Plan, may notify the Secretary General of their intention to comply without reservations with the provisions of this Agreement. The Secretary shall make this decision known to the Parties to the Agreement and the countries referred to in this Article. Nevertheless, the fact that a country has

complied with this Agreement and has notified such compliance does not modify in any way its status with reference to the International Telecommunication Union, its Conferences and its Organs.

Article 5

TERMINATION OF PARTICIPATION IN THE AGREEMENT

a) Any country which has approved or accepted this Agreement, and any group of territories by which or on whose behalf this Agreement has been approved or accepted, may terminate its participation therein at any time. In that event, notice of such termination shall be given to the Secretary General, who shall immediately so inform all Parties to the Agreement and countries which have complied therewith in accordance with the provisions of Article 4 of this Agreement.

b) One year from the date of receipt of any such notice by the Secretary General, this Agreement shall cease to apply to the country or group of territories concerned.

c) If a country which has terminated its participation in the Agreement should commit an infraction of the Mexico City Plan, the Organization charged with the implementation of the Plan, shall, at the request of any country which suffers interference, suggest the necessary protective measures against such interference.

Article 6

ABROGATION OF THE AGREEMENT AND THE PLAN

a) This Agreement and the Mexico City Plan shall be abrogated between all the Parties upon the entry into force of a new Agreement. The Mexico City Plan shall be abrogated upon the entry into force of a new Plan.

b) In the case where a Party does not approve a new Plan this Agreement shall be abrogated with respect to this Party upon the entry into force of the new Plan.

Article 7

REVISION OF THE AGREEMENT AND THE PLAN

a) This Agreement and the Mexico City Plan may be revised only by an International High Frequency Broadcasting Conference convened in accordance with the provisions of Article 11 of the International Telecommunication Convention.

b) The said Conference should be convened as soon as possible and, at the latest, 18 months after the close of the next ordinary Administrative Radio Conference, unless decided otherwise by a Plenipotentiary Conference.

Article 8

TEMPORARY EXCHANGES OF CHANNEL HOURS

All Parties to this Agreement shall be permitted to make arrangements among themselves providing for equitable exchanges of channel hours among those which are assigned to them in the Mexico City Plan. These arrangements, the duration of which will be one year, renewable during the period of application of this Plan, must be submitted to the Organization charged with the implementation of the Plan sixty days before their entry into force. The Organization will accept them, on the condition that they do not cause harmful interference to the broadcasting services of the countries concerned (1), which are to be consulted in accordance with the provisions of Article 9, paragraphs (a), (b) and (c) of this Agreement.

-
- (1) In this Article, the expression "countries concerned" denotes all Parties to this Agreement and all countries which comply therewith in accordance with the provisions of Article 4 of this Agreement to which channel hours have been assigned in the Plan at the same hours, in the same channel and in the adjacent channels.

Article 9

MODIFICATION OF THE PLAN

a) Any country wishing to effect a change in the Mexico City Plan shall so inform the Organization charged with the implementation of the Plan. The Organization will then request all countries concerned (1) to express their opinion concerning the proposed change.

b) The Organization shall take all useful steps to ensure receipt of the communication by the countries concerned. If, within a period of two months from the date of receipt of such a communication, none of the countries concerned has opposed the contemplated change, the Organization shall consider the change as accepted and shall immediately inform all countries Parties to the Agreement and those which comply therewith in accordance with the provisions of Article 4 of this Agreement, of the entry into force of this change.

c) In the event that one of the countries concerned does not accept the proposed change because this would cause harmful interference to its own broadcasting services, the change shall take effect only if the Organization decides that it is technically admissible. However, once this change takes effect, it must be cancelled immediately if one of the countries concerned proves that the change causes harmful interference.

d) Nevertheless, with a view to meeting urgent needs occasioned by unforeseen events, any country may request a temporary and exceptional derogation from the Plan for a period of less than a week, by consulting, through the intermediary of the Organization and by telegraph, the countries concerned. These countries must give notice of objections of a technical nature to the Organization by

(1) In this Article, the expression "countries concerned" denotes all Parties to this Agreement and all countries which comply therewith in accordance with the provisions of Article 4 of this Agreement to which channel hours have been assigned in the Plan at the same hours, in the same channel and in the adjacent channels.

telegraph within 48 hours. In the absence of any objection the requested modification shall be considered as authorized. If, during the period in which the modification is authorized, harmful interference is reported by any country whatsoever, the authorization for modification shall be suspended immediately.

e) All disputes arising from the application of this Article can be adjusted in conformity with the provisions of Article 25 of the Atlantic City Convention and through the intermediary of the Organization.

Article 10

FUNCTIONS OF THE ORGANIZATION RESPONSIBLE FOR THE IMPLEMENTATION OF THE PLAN

The Organization charged with the implementation of the Mexico City Plan shall carry out its functions in accordance with the provisions of Annex 1 of this Agreement.

Article 11

NOTIFICATION OF FREQUENCIES

a) Frequencies assigned by the Mexico City Plan shall bear, as the date of notification in the International Frequency List, the date of the signature of this Agreement.

b) Modifications of the frequencies or of the hours assigned by the Mexico City Plan which may be made in accordance with the provisions of Articles 8 and 9 of this Agreement shall be notified as soon as possible by the country requesting such modifications, in accordance with the provisions of Article 11, Section II of the Radio Regulations.

Article 12

DATE OF ENTRY INTO FORCE

This Agreement and the Mexico City Plan shall enter into force, for the countries and groups of territories which have approved or accepted them after notification of their approval or acceptance by a simple majority of the countries and groups of territories listed in Annex 1 of the Atlantic City Convention, and at a date to be fixed by the next session of the International High Frequency Broadcasting Conference, in consultation with the Special Administrative Radio Conference convened in accordance with the provisions of paragraph 1 of Article 47 of the Radio Regulations.

Article 13

CONDITIONAL SIGNATURE

a) No country or group of territories signatory to this Agreement shall be bound by its provisions and those of the Basic Plan until it has approved or accepted the Mexico City Plan.

b) The conditional nature of this Agreement does not apply to Article 14.

Article 14

"TECHNICAL PLAN COMMITTEE"

a) A Committee, called the "Technical Plan Committee", is hereby created; it is charged with elaborating the phases of the Plan to be added to the Basic Plan in order to constitute the Mexico City Plan.

b) The composition and terms of reference of this Committee are set forth in Annex 2.

IN WITNESS WHEREOF, the duly authorized Delegates of the above-named countries have signed this Agreement in two identical copies, each in the English, Spanish, French and Russian languages. In the event of a dispute, the French text shall be authoritative.

One of these copies shall be deposited in the archives of the Government of Mexico. The other copy shall be transmitted to the Secretary General of the Union who shall keep it in his archives and shall send a certified copy thereof to each of the signatory countries and to those countries which have accepted the Agreement and the Basic Plan.

Done at Mexico City, April 10th, 1949.

For Brazil:

Rauf de Mungueres
instituted
Henric de Azevedo
A. Roberto de Almeida Botelho

For Canada:

C. P. Helmi

For China:

錢其琛 *G. C. Chien*
7.5.

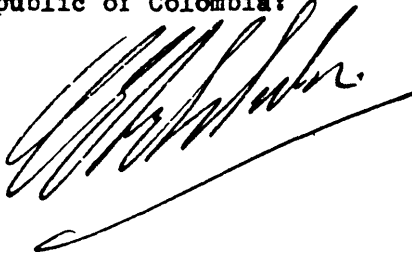
錢鳳亭 *K. Chien*

侯駿迪 *Johnson B. Rao*

For the State of the Vatican City:

M. J.
Philip C. accorn

For the Republic of Colombia:

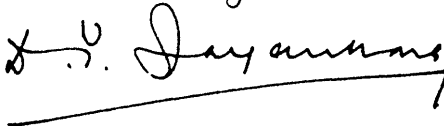


For the Portuguese Colonies:

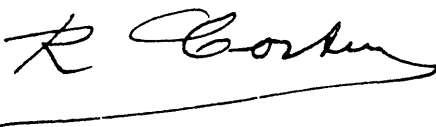


For the Colonies, Protectorates, Overseas Territories
and Territories under mandate or trusteeship of the
United Kingdom of Great Britain and Northern Ireland:

H. W. F. Fryer.



For Belgian Congo and Territories of Ruanda-Urundi:



For Cuba:

*Gen. Al-
Guazales*

For Denmark:

Gunnar Rasmussen.

H. Krag.

For the Dominican Republic:

Francisco J. Medel

For Egypt:

S. El Hagry

J. Hasek

Amir El Banderi

For Ecuador:

León Guona

For Finland:

Viljo Ylöstalo

For France:

Jacques Meyer
J. K. Y.
M. Amou-

For the Republic of Honduras:

Ad-referendum
J. C. W. R.

For India:

M. K. Das

For Indonesia:

Scipio
Norman

For Iran:

Aghdamin

For Ireland:

E. B. ff

For Iceland:

H. P. Pagan

For Italy:

Luigi Vacco

For Luxembourg:

Villan

For Mexico:

M. Pereyra

For Monaco:

Frank Balm

For Nicaragua:

J. Jimenez



For Norway:

Olaf Moe

Toralf Husnevad

For New Zealand:

Ernest R. R. R.

For Pakistan:

Ahmed S. Bokhari

Glenn L. L.

For Panama:

Herman M. Porras,

For Paraguay:

ed. referendum
H. J. Jansen

For the Netherlands, Curacao and Surinam:

H. J. Jansen

M. J. Jansen

For Peru:

A. J. Jansen

For Portugal:

M. J. Jansen

H. J. Jansen

H. J. Jansen

For the French Protectorates of Morocco and Tunisia:

Pierre Schaeffer

For Southern Rhodesia:

J. C. Rapp

For the United Kingdom of Great Britain
and Northern Ireland:

H. A. K. M.

J. C. Rapp

Lord Hayes

For Sweden:

Erik Sjögren

For the Swiss Confederation:

A. Guldinmann

For Syria:

أبراهيم حارس صالح
J. D. Sahin
أبراهيم حارس صالح
Amis el Bardai

For the Overseas Territories of the French Republic
and Territories administered as such:

11
1.
Amis el Bardai

For Turkey:

14
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For the Union of South Africa and the
Mandated Territory of South West Africa:

P. E. Patrick

For the Oriental Republic of Uruguay:

Amis el Bardai

For the United States of Venezuela:

Leopoldo López
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ANNEX 1

FUNCTIONS OF THE ORGANIZATION

ENTRUSTED WITH THE IMPLEMENTATION OF THE PLAN

In order to facilitate and ensure the implementation of the Mexico City Plan, the Organization shall:

1. Supervise the correct and effective application of the Mexico City Plan and formulate any necessary and useful recommendations for its strict observance in conformity with the Convention, Regulations, and Agreements in force. In addition, make any useful recommendations on questions of a technical nature concerning the application of the High Frequency Broadcasting Plan.
2. With a view to applying the Mexico City Plan correctly, check periodically the fundamental technical characteristics of high frequency broadcasting transmissions, using, in conformity with Article 18 of the Radio Regulations, the means for monitoring provided for in that Article. Carry out special checks by the same means, at the request of one or more administrations. Publish the results of the observations and of the measurements made in the course of such monitoring and communicate them to the administrations with an indication of the appropriate means for eliminating the faults which have been pointed out.
3. Supply information and make recommendations to all the administrations on the subject of propagation, publish the results of observations and measurements made by the monitoring stations for the information of administrations; give notification, at least a month in advance, to all administrations of the date at which the change-over from one phase of the Mexico City Plan to another will be effected.

4. Collect all reports and other useful information concerning high frequency broadcasting received through the usual channels, from the various organs of the Union, from administrations, from international organizations and other sources. Analyze and co-ordinate these documents and on each subject formulate the necessary recommendations for administrations concerned. Take the necessary measures for publishing and distributing these documents to all administrations and organizations, with a view to eliminating any faults which have been found in the application of the Mexico City Plan.
5. Study and summarize proposals of modifications which the administrations wish to make to their broadcasting services and ask all administrations, Parties to the Agreement, their opinion on the subject of the proposed modifications in accordance with the provisions of Articles 8 and 9 of this Agreement.
6. Propose, if necessary, to the Administrative Council of the International Telecommunication Union to call an Extraordinary Administrative High Frequency Broadcasting Conference, in conformity with the regulations in force.
7. Take part, in conformity with the regulations in force, in conferences or meetings dealing with technical questions concerning high frequency broadcasting, and if necessary, and with the agreement of the Administrative Council of the International Telecommunication Union, in other conferences or meetings concerning the implementation, the application or the rearrangement of the Mexico City Plan.
8. Prepare, on the basis of the experience gained during the period of operation of the Mexico City Plan for high frequency broadcasting, or on any suggestion made by an administration for the work of a future conference, recommendations which would be useful to the work of such a conference charged with modifying the plan then in force, with improving it, or with drawing up a new plan.

9. Collect data regarding the use and loading of the high frequency broadcasting bands with a view to making such data available to the next administrative radio conference.
10. Establish and keep up to date the general list of working schedules for the high frequency broadcasting transmitters of the various countries; arrange for the periodical publication and distribution of a bulletin containing the necessary information or the latest modifications on this subject.
11. Recommend and encourage the exchange of general statistics on high frequency broadcasting among the interested administrations.
12. Fulfil such other functions of coordination and study which would be necessary for ensuring the satisfactory operation of the Mexico City Plan, as well as those functions which would be within the terms of conventions or agreements in force directly concerning high frequency broadcasting.
13. Submit annually to the appropriate authorities of the International Telecommunication Union a budget for the expenses of the Organization.

M E T H O D

In order to exercise the above-defined functions, the I.F.R.B., if charged with this task, shall proceed in accordance with the method specified in the following points:

1. In the application of the Mexico City Plan, the I.F.R.B. shall use the technical means available to the administrations, the specialized regional organizations and the C.C.I.R. in everything concerning technical observations, measurements and studies.

2. In conformity with the Radio Regulations, the I.F.R.B. shall consult with the Vice-Director of the C.C.I.R. regarding technical high frequency broadcasting matters.
3. The I.F.R.B. shall use the existing means available to the General Secretariat of the International Telecommunication Union with respect to the publication and distribution of documents.
4. The I.F.R.B., in the light of the experience acquired through the implementation of the Mexico City Plan, shall present to the next Plenipotentiary Conference, in the manner prescribed by the regulations of the International Telecommunication Union, suggestions or information concerning the advisability or not of forming a special organization entrusted with implementing the High Frequency Broadcasting Assignment Plan.

ANNEX 2

TECHNICAL PLAN COMMITTEE

I. COMPOSITION

a) The Technical Plan Committee (T.P.C.) shall be composed of members from the following countries:

Argentine Republic, Egypt, United States of America, France, India, Mexico, New Zealand, Pakistan, Portugal, Ukrainian Soviet Socialist Republic, People's Republic of Roumania, United Kingdom of Great Britain and Northern Ireland, Union of South Africa and Mandated Territory of South-West Africa, Union of Soviet Socialist Republics, Oriental Republic of Uruguay.

b) As a practical measure, it is decided that from the above list, only those countries which are signatory to or will have accepted the Agreement before June 15th, 1949, will participate as members of the Technical Plan Committee.

c) In case a country mentioned in (a) above, by virtue of the provisions of (b) above or for any other reason, is compelled to give up participation in the T.P.C., it shall be replaced by a country of the same region designated for this purpose by the Mexico City Conference, in the following order:

Region A: Canada, Brazil
Region B: Italy, Belgium.
Region C: Finland, Czechoslovakia.
Region D: Australia, China.

The conditions of participation as laid down in (b) above shall also apply to the substitute countries.

d) The members of the T.P.C. shall not be considered as exclusively representing their national interests; they shall have the character of experts commissioned by an international mandate and chosen as a consequence from

among proven technicians and, if possible, from those who have acquired the necessary experience at the Mexico City Conference.

The approval of any phase of the Plan or of the Mexico City Plan by a member of the T.P.C. in his capacity as an international technical expert shall not necessarily imply the agreement of his country.

e) The countries which are not represented on the Technical Plan Committee may send Observers to it (without the right to vote).

f) The representative of the U.N. shall be admitted in a consultative capacity.

II. DATE AND PLACE

The T.P.C. shall convene on June 15th, 1949 in France in a city the name of which will be made known in good time by the Secretary General of the Union. The T.P.C. shall so organize its work that it may be completed by October 1st, 1949 at the latest.

III. TERMS OF REFERENCE

a) The T.P.C. shall first prepare a set of three plans corresponding to the June, equinox and December seasons for the solar activity index which will cover the maximum period of application from the probable date of the implementation of the Mexico City Plan. The most appropriate index shall be determined by the T.P.C.

b) The T.P.C. shall then draft a set of three plans for the June, equinox and December seasons for the solar activity index of 5.

IV. DIRECTIVES FOR THE WORK OF THE T.P.C.

a) The T.P.C. shall take as the basis for its work the Basic Plan with a view to elaborating from this plan the six draft phases of the plan envisaged in paragraph III, also taking into account the general principles set out at the end of this Annex under the title "Decisions of the International High Frequency Broadcasting Conference on the subject of General Principles" and the technical standards adopted by the Mexico City Conference, contained in the Preamble to the Plan.

b) In proceeding to the elaboration of the additional plans, the T.P.C. will do everything possible to:

- (1) Assure the continuity of the programmes throughout the various seasons and phases of solar activity.
- (2) Respect the order of preference of the programmes or parts of programmes as indicated by the countries.

c) In order to adapt the Basic Plan in as equitable a manner as possible to the more difficult conditions which exist in seasons and periods of lesser solar activity, the general pattern of distribution shall be retained as far as possible.

"General pattern of distribution" means:

- (1) The total number of channel hours assigned to each country and their distribution among the most loaded bands.
- (2) The duration of transmission periods and their distribution over the most heavily loaded hours of the various bands.

(3) The degree of protection.

d) If the technical conditions do not allow point (c) to be strictly observed, approximately proportional reductions shall be made in the ratio of the total number of channel hours available for a given phase of the Plan, to the total number of channel hours available in the Basic Plan.

Nevertheless, the T.P.C. shall not assign channel hours which could not be used under acceptable technical conditions. Also it will not reduce the channel hours which can be assigned without prejudice to other countries.

e) If the Plans produced by the T.P.C. allow for the assignment of channel hours additional to those corresponding to programmes in the Basic Plan, it shall then be for the T.P.C. to assign these channel hours, on the basis of the principles contained in point (a).

V. PROPOSALS FROM ADMINISTRATIONS TO THE T.P.C.

a) The Administrations which so desire may transmit their proposals for the modification of their assignments in the Basic Plan for use in the preparation of one or more of the additional phases of the Plan, upon condition that their proposals reach the inviting administration before June 10th, 1949.

b) These proposals shall refer essentially to re-assignments which will ensure, as far as possible, the continuity of the programmes provided for in the Basic Plan. The proposals for reassignments shall not exceed in their entirety the total provided for the country in question in the general scheme of distribution in the Basic Plan (See definition in point 2).

c) For the convenience of the work of the T.P.C. and in order to reduce the risk of error, these proposals for modification shall be presented graphically on Form A, annexed hereto, in the three following categories:

- (1) Reassignment of the assignments in the Basic Plan in order to allow the continuity of the programmes, taking into account new propagation conditions;
- (2) Modifications to the time schedules or of programmes on condition that they remain equivalent to those previously assigned, or that they are the result of bilateral agreements;
- (3) Additional assignments, as envisaged in paragraph IV (e) provided that they do not prejudice the assignments to the other countries, which assignments are based on the principles appearing in paragraph IV (a), (b), (c), (d).

d) The administrations may, if they deem it desirable, indicate an order of preference among the different programmes or parts of programmes which figure in the proposals mentioned above.

The order of preference should be indicated for the various programmes by a number in the appropriate column; the most important parts of programmes should be shown in red.

e) These proposals should be presented on Forms A for each phase of the Plan:

- (1) In their entirety for the various programmes,
- (2) by bands.

VI. RELATIONS OF THE T.P.C. WITH ADMINISTRATIONS

a) The Office of the Mexico City Conference shall directly request the various administrations to send to the inviting administration the proposals enumerated in paragraph V of this document.

b) The T.P.C. shall prepare a draft assignment Plan for each phase of the Plan in the order given in paragraph III above. As each draft phase of the Plan is completed, it shall be sent forthwith to all the countries for comments which will be forwarded on the attached Form B. This form shall be returned to the T.P.C. within a maximum period of three weeks.

c) Upon receipt of the comments for each phase of the Plan, the T.P.C. shall proceed as far as possible with the pertinent revisions, and shall prepare a general summary of such comments for immediate transmission to the various countries for their information.

d) On the basis of the summaries of comments prepared for each phase of the Plan, the T.P.C. shall prepare a final report which will accompany the six draft phases of the Plan prepared by it. This report will be transmitted to the administrations.

VII. ORGANIZATION OF THE SECRETARIAT

The Secretariat of the Mexico City Conference is responsible for the organization of the Secretariat of the T.P.C.

VIII. RULES OF PROCEDURE

Article 1

Purpose of the Present Rules of Procedure

The purpose of the present simplified Rules of Procedure for the T.P.C. is to make possible the efficient fulfillment of the terms of reference assigned to this Committee.

Article 2

Composition of the T.P.C.

The composition of the T.P.C. shall be in accordance with the decisions taken by the Mexico City Conference, as set out in paragraph I of this Annex.

Article 3

Chairmanship and Vice-Chairmanship

The head of the delegation of the inviting country shall be the Chairman of the T.P.C. He shall be assisted by two Vice-Chairmen elected by the T.P.C. These elections shall take place at the first full meeting of the T.P.C.

Article 4

Powers of the Chairman

The Chairman shall open and close the meetings, guide the discussions, and announce the result of voting. He shall also be responsible for the general direction of all the work of the T.P.C.

Article 5

Secretariat of the T.P.C.

The Secretariat of the T.P.C., constituted and approved by the Mexico City Conference, shall ensure the efficient execution of the secretarial work of the Committee.

Article 6

Creation of Groups

The T.P.C. may create such groups as it deems necessary for the detailed consideration of the various questions falling within its terms of reference. These groups shall submit concise reports, either orally or in writing, as the case may be, to full committee meetings of the T.P.C.

Article 7

Chairmen of the Working Groups

The Chairman of the T.P.C. shall submit for its approval the choice of the Chairman for each Working Group.

Article 8

Calling of Meetings

The meetings of the T.P.C. and of the Working Groups shall be announced on the bulletin board.

Article 9

Order of Discussion

Persons wishing to take the floor shall be able to do so only after being recognized by the Chairman.

Article 10

Proposals Submitted to the T.P.C. during its Work

Proposals or amendments submitted to the T.P.C. shall be submitted for discussion and put to a vote in accordance with the provisions laid down in Article 12.

Article 11

Proxy

1. The countries participating in the T.P.C. shall not be able to confer permanent powers of proxy upon other countries.
2. No member of the T.P.C. shall be able to confer other than purely temporary powers of proxy upon another member.

Article 12

Voting Procedure during the Work of the T.P.C.

1. Only proposals or amendments falling within the competence of the T.P.C. may be submitted for discussion, and if required submitted to a vote.

2. a) In order for a vote to be valid at least half of the members accredited to the T.P.C. must be present at the meeting at which the voting takes place. In case of absence of quorum a vote will be taken in the following session, regardless of the number of delegations present.
- b) Absence from the meetings of the T.P.C. shall have to be justified.
- c) The meetings of the working groups shall begin at the time specified, regardless of the number of members present.
3. The T.P.C. shall endeavour to reach unanimous decisions and without recourse to the vote. However, in cases where in the opinion of the Chairman, this procedure would risk delaying the work, decisions shall be taken by a majority vote.

Article 13

Minutes of Full Meetings of the T.P.C.

1. Minutes of full meetings of the T.P.C. shall be drafted by the Secretary of the T.P.C.
2. Minutes of full committee meetings shall be drawn up only for those meetings in which decisions are taken. They should briefly reflect the various opinions expressed, as well as the result of the voting and possible reservations.
3. After approval, these Minutes shall, as they are published, be forwarded to the Members of the Union.

Article 14

Reports to accompany the Phases of the Plan, and the Plan

A report on each phase of the Plan and a final report

on the phases of the Plan in their entirety shall be forwarded to the Administrations. These reports shall contain a summary of the opinions expressed whether favourable or unfavourable. In any case, the point of view of the minority, if any, or of any delegation which so desires, shall be summarized in these reports.

Article 15

Additional Provision

With reference to questions of procedure, in cases outside the competence of the T.P.C., the latter shall refer insofar as possible to the Rules of Procedure of the Mexico City Conference.

DECISIONS OF THE INTERNATIONAL HIGH FREQUENCY BROADCASTING CONFERENCE ON THE SUBJECT OF GENERAL PRINCIPLES

The International High Frequency Broadcasting Conference (Mexico City Session),

recognizing that:

a) unanimous agreement has not been reached so far, either on the precise principles which should be taken into consideration in the formulation of the Mexico City Plan for the assignment of high frequencies, or on whether the several categories of services should be accorded priority;

b) although the majority of the countries were in agreement to determine the assignment of frequencies in the available frequency spectrum space on the basis of an equitable and uniformly applicable method, it has not proved possible so far to adopt a formula or other method whose application could determine the proper allocation for each country;

unanimously decides:

1. that the assignment of channel hours by the T.P.C. should take into account the factors enumerated hereunder which have been approved by a majority of the Delegations, although it has not been possible so far to determine the relative importance of these factors either considered in themselves or in their specific application to each country:
 - a) the common factors of the area of the country, population, number of official languages, the existing circumstances in each country, as given below, together with other factors, insofar as they reflect the genuine needs of the different countries;
 - b) the number of transmitters in operation and the volume of the broadcasting being carried out by a country at the present time;
 - c) the extraordinary circumstances which have had a significant bearing on the development of broadcasting in a country, (it being understood that this factor applies in particular to the case of Pakistan or any other country in a similar position);
 - d) the number of transmitters in operation and the volume of broadcasting being carried out by a country, member of the International Telecommunication Union as well as the development plans being carried out at an agreed past date, in the case of countries which have suffered damages during the last war;
 - e) the number of transmitters to be operated and the volume of broadcasting that is expected to be carried out at an agreed future date in the case of countries which have not been able to erect new, or extend existing, installations at the same pace as other countries;
2. that the following considerations, agreed to by a majority of delegations, should also be taken into account by the T.P.C. in the preparation of the Mexico City Plan:

- a) the assignment of an agreed minimum number of channel hours to each country;
- b) the possibility of using alternative methods of transmission and dissemination for the purpose of achieving economy of frequencies;
- c) the technically justified requirements for the duration of the operation of the Plan;
- d) assignment of channel hours to a country should not be refused if it cannot use them immediately, provided it can do so before an agreed date;
- e) the needs of countries which have not submitted their requirements;
- f) channel hours should be allocated to the United Nations Information Services (also to UNESCO);
- g) a maximum power limit for high frequency broadcasting;

- 3. that any Plan which is based exclusively on technical principles is unacceptable;
- 4. that the negative answers of the majority of Delegations to questions 14, 17, 21 B, 23, and 24 in document No. 511 should also be taken into account in the preparation of the Plan.

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TRANSLATION OF THE TERMS PRINTED OVERLEAF

TRADUCCION DE LOS TERMINOS IMPRESOS EN EL REVERSO

Program - Программы

Category - Категория

Sunspot Number

- Nombre de taches solaires

- Indice de actividad solar

- Число солнечных пятен

Hours of transmission G M T

- Heures d'émission TMG

- Horas de transmisión TMG

- Часы передачи ГСВ

Order of preference of the requirements

- Ordre de préférence des demandes

- Orden de preferencia de las solicitudes

- Порядок предпочтения зая-
вок

Transmitter location

- Emplacement de l'émetteur

- Emplazamiento del transmisor

- Местоположение передатчи-
ка

Power

- Puissance

- Potencia

- Мощность

Country

- País

- Страна

Transmitter zone No.

- Emetteur de la zone No.

- Area de transmisión No.

- Зона передатчика №

Antenna Gain

- Gain de l'antenne

- Ganancia de la Antena

- Усиление антенны

Season

- Estacion

- Сезон

Region of Reception

- Región de recepción

- Район приема

Azimuth

- Azimut

Reception Zone No.

- Zone de réception No.

- Zona de recepción No.

- Зона приема №

Minimum Distance -

- Минимальное расстояние

Maximum Distance -

- Максимальное расстояние

NOTE :

1. Indiquer dans la colonne 1 en lettres majuscules et dans l'ordre alphabétique A, B, C, D, etc., les différents programmes.
2. Indiquer dans la colonne 2, en chiffres romains I, II, III, à quelle catégorie se réfère la demande de programme conformément aux dispositions de la section V de l'annexe No. 2 à l'Accord concernant les demandes.
3. L'ordre de préférence sera indiqué de la manière suivante:
 - a) Un numéro porté dans la colonne 3 caractérisera l'ordre de préférence dans lequel le pays classe les programmes qu'il demande.
 - b) Les parties de programmes considérées comme les plus importantes seront indiquées en rouge sur le diagramme.
4. Les administrations pourront joindre à la formule A une note annexe ou figureront les explications complémentaires.

NOTE :

1. Indicate in Column 1, by capital letters in alphabetical order (A, B, C, D, etc.) the different programmes.
2. Indicate in Column 2, by Roman figures I, II, III, to which category the request for a programme corresponds, in accordance with the provisions concerning the requirements given in Section V of Annex No 2 of the Agreement.
3. The order of preference shall be indicated in the following manner:
 - a) A number in Column 3 shall indicate the order of preference in which the country requesting the programmes classifies them.
 - b) The parts of the programmes considered most important shall be indicated in red in the diagram.
4. The Administrations may add to Form A an annexed note with additional explanations.

NOTA :

1. Indíquense en la columna 1, con letras mayúsculas y por orden alfabético (A, B, C, D, etc.) los diferentes programas.
2. Indíquese en la columna 2, con números romanos I, II, III, a qué categoría se refiere la solicitud de programa, con arreglo a las disposiciones, referentes a las solicitudes de la Sección V del Anexo No 2 del Acuerdo.
3. El orden de preferencia se indicará del siguiente modo:
 - a) Un número en la columna 3 caracterizará el orden de preferencia en el cual el país solicitante clasifica los programas solicitados.
 - b) Las partes de los programas que se consideren más importantes se indicarán en rojo sobre el diagrama.
4. Las Administraciones podrán adjuntar a la Forma A una nota con explicaciones complementarias.

ПРИМЕЧАНИЕ :

1. Указать в Столбце 1 прописными буквами и в алфавитном порядке A B C D и т.д.
2. Указать в Столбце 2 римскими цифрами I, II, III к какой категории относится заявка на программу, согласно постановлениям Раздела V, Приложения № 2 к Соглашению, касающегося заявок.
3. Порядок предпочтения будет указан следующим образом:
 - a) Номер, внесенный в Столбец 3, будет указывать порядок предпочтения, в котором страна классифицирует затребованную ею программу.
 - b) Части программ, рассматриваемые как наиболее важные, будут указаны в таблице красной линией.
4. Администрации могут приложить к форме А примечание, содержащее дополнительные пояснения.

FORM "B"

COMMENTS ON DRAFT PLAN

FOR:-----

COUNTRY-----

SEASON-----

BAND-----Mc/s

CHANNEL NO.	HOURS ASSIGNED	PERIOD OF TRANSMISSION	PROTECTION RATIO	REMARKS OR SUGGESTIONS
1	2	3	4	5

Note: 1. Les administrations des pays devront remplir une formule séparée pour chaque bande, en indiquant dans les colonnes 2, 3 et 4 pour chaque fréquence allouée "accord" ou "désaccord". On portera dans la colonne 5 les observations ou les propositions des Administrations.

2. Les Administrations pourront, si elles le désirent, soumettre dans une Annexe séparée, des observations détaillées ou des propositions concrètes.

1. The Administrations of the countries should fill up a similar form for each band, indicating for each channel allotted: "agree" or "disagree" in columns 2, 3 and 4. Column 5 should contain the observations or proposals of the Administrations.

2. If they so desire, the Administrations can submit their detailed comments and specific proposals in a separate annex.

1. Las Administraciones de los países deben llenar una forma separada para cada banda, señalando, en las columnas 2, 3 y 4, correspondientes a cada canal asignado las palabras "de acuerdo" o "en desacuerdo". En la columna 5 se inscribirán las observaciones o las propuestas de administraciones.

2. Las Administraciones pueden, si así lo desean, presentar por separado observaciones detalladas o propuestas concretas.

ПРИМ.: 1. Администрации стран должны по каждому диапазону в отдельности заполнить такую форму, указав по каждому выделенному ей каналу, в колонках 2, 3 и 4: "согласен" или "не согласен". В колонке 5 даются замечания или предложения Администрации.

2. Администрации могут, если они этого пожелают, дать в виде отдельного приложения свои детальные замечания и конкретные предложения.

F I N A L P R O T O C O L

annexed to the International High Frequency

Broadcasting Agreement

Mexico City 1949

concerning the United Nations

At the time of signing the Mexico City Agreement, the undersigned Delegates of the Signatory Countries agree to the following:

The United Nations, should the Secretary General of the United Nations accept this Agreement on behalf of the United Nations' telecommunication services, shall be regarded as a Party to the Agreement for the purposes of this Agreement.

The signatures applying to this Final Protocol are the same as those of the Agreement.

D E C L A R A T I O N

concerning the International High Frequency
Broadcasting Agreement

MEXICO CITY 1949

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

concerning Article 12 "Date of entry into force"

In view of the special position occupied by the United Kingdom in High Frequency Broadcasting, the approval after signature of this Agreement by His Majesty's Government in the United Kingdom will not be effected until the approval or acceptance of the Agreement by Governments of countries to which an adequate percentage of the total channel hours has been allocated.

MEXICO CITY PLAN

of the Distribution of Channel Hours for High Frequency Broadcasting

BASIC PLAN

Preamble

CHAPTER 1

Technical Definitions

1. Power

The word "Power" denotes the unmodulated power measured at the antenna.

2. Directive Antenna

The term "Directive Antenna" denotes an antenna of special construction which is used in order to strengthen the radiated power in given directions and, simultaneously, to reduce the radiation in other directions.

In describing the characteristics of directive antennas the following definitions are used:

Angular Width of the Main Beam

The angular width of the main beam of an antenna is, by convention, the angle which is contained by the two directions for which the field is half the maximum value of the field radiated in the main beam.

Gain

The gain of an antenna (1) in a given direction is the ratio, expressed in decibels, of the square of the field intensity radiated in that direction by the given antenna to the square of the field intensity which a perfect half-wave antenna, isolated in space, would radiate in its median plane, the fields being measured at a sufficient distance from the antenna in each case (2). It is assumed that both antennas are supplied with the same power.

Coefficient of Directivity

The coefficient of directivity of an antenna (3) in a given direction is the ratio, expressed in decibels, of the square of the field intensity radiated in that direction to the mean of the squares of the radiated field intensities for all directions in space, the fields being measured at a sufficient distance from the antenna (2).

Azimuth

The azimuth is the angle between the direction of the main beam and true North, measured East of North.

-
- (1) When not otherwise specified, the figure expressing the gain of an antenna refers to the gain in the direction of the main beam.
 - (2) The expression "sufficient distance" should be interpreted to mean a distance not less than ten times the maximum dimension of the antenna and in no case less than ten wavelengths.
 - (3) When not otherwise specified, the figure expressing the coefficient of directivity of an antenna refers to the coefficient of directivity in the direction of its main beam. When it is not necessary to take antenna and earth losses into account, the coefficient of directivity as defined above is 2.15 db higher than the gain of the antenna as defined in paragraph 65 of the Radio Regulations (Atlantic City, 1947).

3. Frequency Tolerance

The term "frequency Tolerance" denotes the maximum permissible difference, expressed in cycles per second, between the frequency of the carrier wave of a broadcasting station and the frequency assigned to that station by the Plan.

4. Intended Area of Reception

The term "intended area of reception" denotes the area over which broadcast coverage is contemplated.

5. Area Served by a Transmission

The term "area served by a transmission" denotes the area covered by the main radiation beam of an antenna (1), in which the desired signal conforms to the standards for good reception. These standards are defined by the protection ratios for signal to atmospheric noise, signal to industrial noise, and wanted signal to unwanted signal on the same channel and on adjacent channels.

6. Geographical Zone

In order to facilitate calculations necessary for the preparation of the Plan, and taking into account the general conditions of propagation, the surface of the globe has been divided into geographical zones, numbered from 1 to 67, as shown on the map annexed to the Basic Plan.

-
- (1) In this definition "covered by the main radiation beam" means within that part of the main beam where the field intensity is equal to at least half the maximum value of the field radiated in the main beam.

7. Simultaneously Shared Channel

The term "simultaneously shared channel" denotes a channel used simultaneously by two or more transmitting stations on the condition that a protection ratio of 40 db is maintained between the median values of the desired and undesired fields. (1)

CHAPTER II

Technical Principles and Standards

8. Separation Between Assigned Frequencies

The separation between assigned frequencies in the Mexico City Plan is fixed at 10 kc/s.

9. Frequency Tolerance

- a) In principle, the frequency tolerance shall be such that the simultaneous sharing of channels is not restricted thereby.
- b) Provisionally, the frequency tolerance for transmitters working on simultaneously shared channels shall be ± 50 c/s. After January 1st, 1953 the tolerance shall be ± 20 c/s.
- c) For other transmitters the frequency tolerance shall be such that the possible variation in the 10 kc/s separation between assigned frequencies shall not exceed 100 c/s.

-
- (1) In the present Plan certain countries have agreed to accept cases of simultaneous sharing for which the protection ratio is less than 40 db.

10. Bandwidth of Modulating Frequencies

Normally, the maximum bandwidth of modulating frequencies shall be 6400 c/s. However, if in specific cases it can be shown that the use of such a maximum bandwidth would cause harmful interference in adjacent channels, to signals having a field strength at least equal to the minimum signal to be protected as defined in paragraph 13, the countries concerned shall employ in their transmitters low-pass filters having an attenuation of 6 db at 5300 c/s and at least 25 db at 6000 c/s.

11. Non-linear Distortion

With a modulation bandwidth of 6400 c/s, the non-linear distortion at the output of the transmitter shall not exceed 5%, when the modulation depth is 90% for modulating frequencies between 100 and 5000 c/s; moreover, it shall not exceed 5% when the modulation depth is 50% for modulating frequencies between 5000 and 6400 c/s.

12. Maximum Permissible Power

a) The powers of stations, as indicated in any phase of the Plan, are the maximum powers that may be employed by those stations during the period of application of that phase of the Plan.

b) Normally, the maximum power of a transmitter shall not exceed 120 kW. However, in exceptional cases of especially difficult circuits this value may be exceeded provided that the maximum power of the transmitter shall not in any case exceed 240 kW.

13. Minimum Signal to be Protected

The median field intensity of a signal which must be protected in any area served by a transmission (see Chapter 1, paragraph 5) shall be 150 microvolts/metre.

14. Percentage of the Time for which Protection of the Signal against Atmospheric and Industrial Noise should be provided in the Presence of Fading

Protection should be provided for at least 80% of the total time or for at least 90% of the hour and 90% of the days.

15. Ratio of Steady Carrier to Average Atmospheric Noise in the Absence of Fading

The ratio between the steady carrier and the average atmospheric noise, measured in a radio frequency bandwidth of 4000 c/s, should be at least 80 to 1 (38 db).

16. Ratio of Steady Carrier to Peak Industrial Noise in the Absence of Fading

The ratio between the steady carrier and the peak value of the industrial noise, measured in a radio frequency bandwidth of 9000 c/s, must be at least 10 to 1 (20 db).

17. Protection Ratio against Atmospheric Noise in the Presence of Fading

Based on a ratio of 38 db between the steady carrier and the average atmospheric noise measured in a radio frequency bandwidth of 4000 c/s, the ratio between the median value of the carrier and the average value of the atmospheric noise measured in a radio frequency bandwidth of 6000 c/s, should be at least 46 db in order to allow for all types of fading.

18. Protection Ratio against Industrial Noise in the Presence of Fading

Based on a ratio of 20 db between the steady carrier and the peak value of the industrial noise and, under the same considerations with respect to the fading signal as in the case of atmospheric noise, the ratio of median carrier to peak industrial noise should be at least 3⁴ db.

19. Protection Ratio against Interference from an Unwanted Transmission in the same channel in the Absence of Fading

In the absence of fading the ratio of the wanted carrier to the interfering carrier shall be at least 23 db.

20. Allowance for Short and Long term Fading

The total allowance for short and long term fading should be 17 db.

21. Protection Ratio against Interference from an Unwanted Transmission in the same channel in the Presence of Fading

The ratio between the median value of the wanted carrier and the median value of the interfering carrier shall be at least 40 db in order to provide a steady state ratio of not less than 23 db for 90% of the hour and 90% of the days.

22. Protection Ratio against Interference from an Unwanted Transmission in an adjacent channel in the Absence of Fading

a) For a modulation bandwidth of 6400 c/s,

the ratio between the wanted carrier and the interfering carrier should be at least 1:2 (-6 db) in the absence of fading.

- b) If the modulation bandwidth is limited by means of a low pass filter having an attenuation of 6 db at 5300 c/s and at least 25 db at 6000 c/s, the ratio between the wanted carrier and the interfering carrier should be at least 1:11.2 (-21 db) in the absence of fading.

23. Protection Ratio against Interference from an Unwanted Transmission in an adjacent channel, in the Presence of Fading

- a) For a modulation bandwidth of 6400 c/s, the ratio between the median values of the wanted carrier and the interfering carrier shall be at least 3.5:1 (11 db).
- b) If the protection ratio specified in (a) above cannot be maintained, it may be necessary for the transmitter concerned to employ a low pass filter having an attenuation of 6 db at 5300 c/s and at least 25 db at 6000 c/s.
- c) If the modulation bandwidth is limited in accordance with the filter characteristics proposed in (b) above, the ratio between the median values of the wanted carrier and the interfering carrier shall be at least 1:1.6 (-4 db).

CHANNEL HOUR ASSIGNMENT PLAN

1. The following Plan indicates the distribution of channel hours between the stations broadcasting on high frequencies and constitutes the Basic Plan.
2. In this Plan the proposed frequency assignments relate both to the countries which are Parties to the present Agreement and to those which are not Parties thereto.

(The Channel Hour Assignment Plan is published as a separate volume titled: "MEXICO CITY PLAN OF THE DISTRIBUTION OF CHANNEL HOURS FOR HIGH FREQUENCY BROADCASTING Annexed to the International High Frequency Broadcasting Agreement, BASIC PLAN.")

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APPENDICES TO THE MEXICO CITY PLAN

Appendix 1

TECHNICAL RECOMMENDATIONS TO THE COUNTRIES
PARTIES TO THE MEXICO CITY INTERNATIONAL
HIGH FREQUENCY BROADCASTING AGREEMENT

I Use of Directive Antennas:

1. The International High Frequency Broadcasting Conference of Mexico City recommends the use of curtain arrays or directive antennas having better directivity for high frequency broadcasting.
2. The maximum radiation in the horizontal plane and the angle of elevation of the maximum radiation shall be chosen in such a manner as to ensure the most efficient transmission to the intended area of reception.

Stations for which the Mexico City Plan does not provide for the use of directive antennas, may use them only on the condition that such use does not cause harmful interference to the transmissions of other broadcasting stations or to the transmissions of the stations of other services.

3. Radiation in unwanted directions shall be kept as low as possible and in no case shall it exceed the value that would be obtained if an omni-directional antenna were employed.
4. In the case of short distance broadcasting services the radiation in the vertical plane shall be restricted to that angle necessary to provide reception in the intended area of service and radiation at lower angles shall be kept to a minimum.

II Measures to Avoid Harmful Interference

5. If the use of a frequency assigned under the Mexico City Plan to any broadcasting station causes interference which had not been taken into account at the moment of the signature of this Agreement, the interested countries should take measures, by mutual agreement, to eliminate such interference, preferably in consultation with the organization in charge of the implementation of the Plan.
6. Recognizing the harmful effects of over-modulation of transmitters, it is recommended that measures should be taken to limit the depth of modulation to a maximum value of 95% on negative peaks. An appropriate means of attaining the above is the use of a limiter-amplifier in the audio chain.
7. Taking into account the fact that the level of industrial noise in large cities increases every year and that it is not always possible to obtain desirable protection ratios between the desired signal and industrial interference, the Conference invites the attention of all Countries, Members of the International Telecommunication Union to the contents of paragraph 3 of Article 44, page 29 of the Atlantic City Convention and Article 13, Section II, page 83 of the Radio Regulations.

III Methods Recommended for Economizing in the Use of High Frequencies

8. Avoid, as far as possible, transmissions during periods when ionospheric conditions are changing very rapidly, if there is no strong reason for continuing the transmissions.
9. Divide long transmissions into a number of transmissions of shorter duration (but at least equivalent to an hour), for each one of which the use of a single frequency would be

acceptable, whenever this procedure would result in avoiding the simultaneous use of frequencies in different bands during certain periods.

10. Use wherever technically and economically possible, frequencies other than those in the high frequency broadcasting bands (i.e., low, medium, and very high frequencies, and frequencies in the tropical bands).
11. Take advantage of every practical possibility offered by the utilization of point-to-point circuits (when such practice is acceptable to the interested services).
12. Standardize transcriptions so that programme exchanges between local or regional stations may lead to a reduction in the use of high frequencies.
13. Make every effort, in the construction of receivers, to ensure that their characteristics permit the use of all the high frequency and tropical broadcasting bands.

Appendix 2

RECOMMENDATIONS TO THE C.C.I.R.

The International High Frequency Broadcasting Conference, Mexico City, considering that it has not been possible to make a complete study of a number of questions mentioned in the Report of the Committee on Technical Principles and Standards (Document No. 635) draws the attention of the C.C.I.R. to the technical data contained therein and requests the C.C.I.R. to undertake the further study of the following questions:

1. The technical conditions under which, because of the urgent need for economy in the use of frequencies for broadcasting, it would be possible to justify the use of more than one frequency for the transmission of one programme to one reception area. This study should be linked with a study of the question of an appropriate definition of "geometric reception area".
2. The formulation of general standards for high frequency receivers, for use in the preparation of high frequency broadcasting assignment plans.
3. The technical and practical questions, such as the desirable modulation bandwidth, fading, and the various forms of distortion, related to the subjective aspects of quality of reception.

In making this study, particular attention should be given to the question of the corrections that should be made to take account of long and short term fading in determining:

- a) the average level of the signal necessary to ensure satisfactory reception in the presence of noise or other interference having a fixed level;

- b) the average level of the signal necessary to ensure satisfactory reception in the presence of atmospheric noise;
- c) the ratio required between the average levels of wanted and unwanted signals.

Appendix 3

DECLARATIONS CONCERNING THE USE OF CERTAIN CHANNELS

6 Mc/s Band

Channel No 22

In case the transmission from Hungary causes interference in Indochina, Hungary agrees to abandon its transmission from 2230 to 2400 GMT.

7 Mc/s Band

Channel No 5

The Delegation of the Colonies, Protectorates, Overseas Territories and Territories under Mandate or Trusteeship of the United Kingdom of Great Britain and Northern Ireland and the Delegation of the Overseas Territories of the French Republic and Territories administered as such, have agreed to share:

Channel No 5 in the 7 Mc/s Band (frequency 7145 kc/s) from 1800 to 2000 GMT subject to the reservation that in the event of interference being produced in French West Africa by Zanzibar, the latter will abandon its transmission from 1800 to 2000 GMT.

9 Mc/s Band

Channel No 7

Cuba and Paraguay agree to share with the United Kingdom from 1530 to 1600 GMT, subject to the reservation that in the case of interference the United Kingdom will abandon its transmission.

Channel No 15

Austria agrees to share with the USSR from 0000 to 0200 GMT subject to the following conditions:

a) the USSR will transmit to zone 45 from zone 34 (Vladivostok) with a power of 50 kW and an antenna of 17 db gain.

b) Austria will transmit to zones 6, 7, and 8 from zone 28 with a power of 50 kW and an antenna of 18 db gain.

11 Mc/s Band

Channel No 20

The Overseas Territories of the French Republic and Ireland agree to share the above channel between 0100 and 0200 GMT subject to the reservation that in the event of interference in the reception area, zone 41 (India), of the transmission from Indochina, Ireland will abandon its transmission to America.

15 Mc/s Band

The channels indicated below may be shared as indicated subject to the following conditions: in practice, if harmful interference is experienced in the course of the transmissions, the country whose name figures second will, in every case, abandon its transmission.

		<u>Time GMT</u>
Channel No 6 :	Brazil) India)	1400 - 1700
Channel No 10 :	Cuba) Egypt)	1800 - 2000
Channel No 14 :	Pakistan) Colombia)	1300 - 1800
Channel No 18 :	Australia) Colombia)	2200 - 2400
Channel No 26 :	Portugal) Argentina)	1300 - 1700
Channel No 27 :	India) Mexico)	0000 - 0300 2230 - 2400
Channel No 29 :	India) Uruguay)	0000 - 0100
Channel No 29 :	Ceylon) Uruguay)	0100 - 0200

DECLARATIONS

concerning the Mexico City Plan

COMMONWEALTH OF AUSTRALIA

The Delegation of Australia, considering:

a) that the Basic Plan has been revised three times hastily under conditions of pressure towards the end of the Mexico City Conference; and

b) that changes affecting the requirements of Australia have been made in these plans, some being of a substantial nature and not at the request of the Delegation of Australia; and

c) that some of these changes are not acceptable and the assignments require correction in some cases for technical reasons and in other cases for programme reasons;

reserves the right to effect changes in the assignments to Australia in the Basic Plan to the extent that will be found necessary and practicable after further detailed study, such changes to be generally within the framework of the total channel hours assigned to each country under the Basic Plan;

- 1) to improve the sharing conditions for Australian services;
- 2) to improve the programme service hours where practicable;
- 3) to correct the stated areas of reception where they are wrongly stated and to alter the areas stated in certain cases, where this is desired and can be done in consultation with the Technical Plan Committee without causing harmful interference.

- 4) to the small extent necessary, to correct the frequency assigned as necessary to obtain the O.W.F.

The Delegation of Australia, also, considering that its requirements have not been satisfied completely by the assignments in the Mexico City Basic Plan;

that since reductions in their original demands were made voluntarily by certain countries, including Australia, additional channel hours have been made available by the sharing proposals of the International High Frequency Broadcasting Conference (Mexico City Session, 1949)

- 1) reserves the right to again present the requirements of Australia at the next High Frequency Broadcasting Conference; and
- 2) reserves its position fully in the event of any substantial changes in the total of channel hours assigned to other countries, subsequent to the issue of the Basic Plan.

BELGIUM AND THE BELGIAN CONGO

As has been already stated by their Delegations in the Plenary Assembly of Tuesday, April 5th, Belgium and the Belgian Congo reserve the right to make certain exchanges of channel hours with each other, in order to remedy certain deficiencies in the channel hours allocated to them in the Basic Plan, or in the assignment of hours which are unsuitable for their programmes, on the condition that no new interference results therefrom to the countries concerned.

BOLIVIA

In confirming its declarations made in the Plenary Assembly and its incessant observations in the Plan Revision Group of the International Conference for High Frequency Broadcasting (Mexico City Session), the Delegation of Bolivia makes the following reservations with respect to the Basic Plan for the distribution of frequencies:

1. Bolivia requested that it should be allocated in the 6 Mc/s band, a sufficient number of channel hours at times suitable for listening in Bolivia for its national services. The Delegation of Bolivia makes formal reservations concerning the allocations in this band since they have been made without taking into account the strong requests made by Bolivia for these hours.
2. In the 15 Mc/s band the treatment of Bolivia was completely unjust, as it has received only 4 channel hours out of the 25 channel hours requested. Consequently concerning its international service, Bolivia makes a formal reservation concerning this allocation and it hopes that this situation will be modified by those same organizations created by this Conference.
3. The total number of channel hours allocated to Bolivia, being well below the minimum figure requested, does not in any way do justice to its needs.

CANADA

The signing of this Agreement on behalf of Canada is subject to the following reservations:

1. That in those cases where frequency assignments, in the Basic Plan, to the high frequency broadcasting services of Canada have lower than the standard co-channel and adjacent channel protection ratios the acceptance of such assignments is on a trial basis only;

2. That the Technical Plan Committee when preparing frequency assignment plans for the remaining phases of the Mexico City Plan shall assign channel hours to all the high frequency broadcasting services of Canada, and to the same reception areas, provided for in the Basic Plan.

CHINA

As has been stated in the Plenary Assembly of Tuesday, April 5th, 1949, that the channel hour assignments in the Basic Plan to the Republic of China do not meet her national needs for her national and international broadcasting, the Delegation of the Republic of China wishes to make the following reservations:

1. China reserves the right to request to increase her channel hour assignments in the future.
2. China reserves the right to present again her requirements, appropriate to her national needs, at the next High Frequency Broadcasting Conference.
3. Due to the very few channel hours assigned to China in the lower bands for her national broadcasting, she may make use of the number of channel hours still available for sharing in region D.
4. Due to the low protection ratio provided for in a few of the shared channel assignments, it is trusted that adjustments may be made in future if harmful interference is experienced.
5. As the repeated requests for separating the adjacent channel assignments, channels Nos. 16 and 17, in the 7 Mc/s band have not been complied with, it is expected that the Technical Plan Committee, in elaborating the remaining phases of the Plan, will make proper adjustments to this effect.

6. In the Final Draft of the Basic Plan, the two channels, Nos. 11 and 24, assigned to China are put adjacent to the two assignments to the Outer Mongolian Republic. This accidental mistake is expected to be corrected by the Technical Plan Committee also, in elaborating the remaining phases of the Plan in Paris.

STATE OF THE VATICAN CITY

The Delegation of the State of the Vatican City regrets to have to reserve its position concerning the commitment to use low pass filters.

While making every effort to abide, as much as possible, by the rule established, nevertheless it cannot consider itself unconditionally committed.

COLONIES, PROTECTORATES, OVERSEAS TERRITORIES AND TERRITORIES UNDER MANDATE OR TRUSTEESHIP OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

In accepting the Mexico City Plan as a model to be used by the Technical Plan Committee when establishing the plans for other seasons and phases of the solar cycle, the Delegation of the United Kingdom Colonies and Associated Territories draws the attention of the Technical Plan Committee to the following features of the Basic Plan which are considered to be particularly unsatisfactory:

Channel Hours and Periods Assigned

1. Malaya. An additional channel is required for Malaya in the 6 Mc/s band during the period 1000 to 1600 GMT in order to maintain a transmission which is already in operation.

2. Territories in the Caribbean Area (Trinidad, British Guiana and British Honduras). The assignments made to these territories in the 6 Mc/s band during the period 2200 to 0300 GMT fall far short of what is needed. An assignment for British Honduras during the period 1830 to 1930 GMT is required in the 9 Mc/s band.
3. Nigeria and Kenya. The provision made for these territories in the 7 Mc/s band during the optimum listening period 1800 to 2100 GMT is inadequate.

Sharing

A number of the assignments made to the United Kingdom Colonies cannot be regarded as more than partially satisfactory from the point of view of sharing. In this connection particular attention is drawn to the shared use of Channel No 14 in the 7 Mc/s band by Malta and Northern Rhodesia during the period 1600 to 2000 GMT.

FRANCE

The French Delegation again points out that as a result of changes in channels being made without consultation, at the last moment, the use of certain assignments, for which the neighbouring assignments were acceptable in the early draft Plan, is now likely to be very difficult. The new neighbouring assignments concerned are those in channels Nos 21 and 22 in the 6 Mc/s band and in Channels Nos 24 and 25 in the 9 Mc/s band.

The French Delegation believes that it should point out this fact so that the T.P.C. may take it into account in the elaboration of the further plans from the Basic Plan.

REPUBLIC OF HONDURAS

The Delegation of Honduras accepts the Mexico City Plan in its entirety on a trial basis subject to the following reservations:

1. that Honduras may receive a larger number of channels in the 6 and 9 Mc/s bands. These bands have the appearance in the Basic Plan of being experimental and should probably be re-examined when the said Plan enters into force;
2. that a more equitable division of shared channels should be made between the countries of Central America.

INDIA

I

The Delegation of India regrets to have to completely reserve its position concerning the decisions relative to the use of more than one frequency for the transmission of a single programme (decisions taken in the Plenary Assembly of January 29th 1949).

II

The Delegation of India regrets to have to reserve its position regarding the decision of the Plenary Assembly to provide low pass filters in the transmitters in case harmful interference is caused on adjacent channels and this interference is attributed to higher audio frequencies (between 5300 c/s and 6400 c/s).

The Delegation of India has to state that the problem of adjacent channel interference was not taken into consideration while preparing the assignment plan, and that therefore it is not fair to impose a restriction, at this stage, on the audio bandwidth as such a measure will not result in uniform treatment for all countries.

While making every effort to abide as far as possible, by the rule established, nevertheless, the Delegation of India cannot consider itself unconditionally committed.

III

India reserves the right to take the necessary steps to ensure proper reception of its transmissions effected on shared channels in the event that other transmitters operating on the same channels should cause harmful interference in the reception areas of the Indian transmissions.

ITALY

I

1. The Italian Delegation has accepted very substantial reductions in its own initial requirements with a view to facilitating the establishment of a Basic Plan and in anticipation of an available number of channel hours less than 6000.

Although this number has been increased considerably, Italy's needs have not been completely satisfied.

Consequently, Italy reserves the right to submit to the next High Frequency Broadcasting Conference new requirements corresponding to its needs.

2. The Italian Administration reserves the right to adopt the necessary measures to ensure satisfactory reception of the transmissions effected on shared frequencies, in the event that the effective protection of the transmissions in the reception areas designated should be less than as provided in the Plan.

II

The Delegation of Italy regrets to have to make a reservation on the subject of the decision taken by the

Plenary Assembly of March 31st requiring the use of low pass filters in those transmitters which cause harmful interference to the transmissions in adjacent channels.

PORTUGAL

I

The Delegation of Portugal formally states that it cannot accept as final the assignments made to Portugal in the 11 Mc/s band, since the programmes considered as fundamental have been eliminated in the Basic Plan.

The Delegation of Portugal makes full reservations with regard to its acceptance of the other phases of the Plan in the event that the hours necessary for broadcasting the said programmes should not be granted.

II

The Delegation of Portugal reserves the right to take all the necessary steps to ensure the efficiency of its transmissions in the event that the transmissions of a non-signatory country cause harmful interference to Portugal's broadcasting services, on the condition that these steps do not affect the broadcasting of the countries Parties to the Agreement.

PORTUGAL AND THE PORTUGUESE COLONIES

The Delegations of Portugal and the Portuguese Colonies reserve the right to change and to share, reciprocally or within their own services, the non-shared assignments which have been made to them under the Basic Plan, as well as to modify the respective reception areas in accordance with the necessities of the service, on condition that they will take all the necessary measures to avoid harmful interference to the broadcasting of the countries concerned.

FRENCH PROTECTORATES OF MOROCCO AND TUNISIA

The Delegation of the French Protectorates of Morocco and Tunisia emphasize that the assignments for Tunisia in the 6 and 7 Mc/s bands do not allow the satisfactory fulfillment of its internal broadcasting.

It suggests that the T.P.C. remedy this situation, taking into account the reassignments which will be presented to it by the Tunisian Administration and which will be within the general distribution scheme of the Basic Plan.

UNITED KINGDOM OF GREAT BRITAIN
AND NORTHERN IRELAND

I

In accepting the Mexico City Plan as a model to be used by the Technical Plan Committee when establishing the plans for other seasons and phases of the solar cycle, the United Kingdom Delegation draws the attention of the Technical Plan Committee to certain cases of sharing which are considered to be unsatisfactory.

For example, in the 11 Mc/s band Channel No. 1 from 0500 to 0900 GMT (U.K. Georgetown shared with the U.S.S.R. West) and in the 9 Mc/s band Channel No. 24 from 1400 to 1700 GMT (U.K. shared with India).

The United Kingdom Delegation would also draw the attention of the Technical Plan Committee to the inadequacy of the allocations made to the United Kingdom services in the 17 and 15 Mc/s bands, and recalls that the minimum figures to which we are prepared to assent in these bands will remain 59 and 68 channel hours respectively.

II

The Delegation of the United Kingdom reserves the right to change and to share, reciprocally or within its own services in the United Kingdom and at the relay stations at Singapore and Georgetown, the non-shared assignments which have been made to it under the Basic Plan, as well as to modify the respective reception areas in accordance with the necessities of the service, on condition that all necessary measures are taken to avoid harmful interference to the broadcasting of the countries concerned in accordance with the Atlantic City Radio Regulations and the Mexico City International High Frequency Broadcasting Agreement.

III

The Delegation of the United Kingdom of Great Britain and Northern Ireland considering it impracticable for any country to bind itself to maintain the technical standards given in paragraphs 14 to 23 of Chapter II of the Preamble to the Plan, which forms an integral part of the Agreement, reserves its position with respect to the provisions of those paragraphs.

IV

The United Kingdom Delegation, on behalf of the authority controlling the British Zone of occupation in Germany finds itself unable to accept the allocation of frequencies made to this Zone of Occupation in Germany. Firstly, the number of channel hours assigned in the Basic Plan is much below those requested and is grossly inadequate. Secondly, the 7 channel hours allocated to the British Zone of Occupation in Germany are less than 25% of the total channel hours allocated to the four zones of occupation.

In consequence the United Kingdom Delegation must reserve its position regarding the use of high frequencies for broadcasting in the British Zone of Occupation in Germany.

SWITZERLAND (Confederation of)

Switzerland accepts the Mexico City Plan as a whole on a trial basis with the following reservations:

Several sharing possibilities in the 9 and 11 Mc/s bands appear to have an experimental character and may need new consideration once the Plan has come into force.

OVERSEAS TERRITORIES OF THE FRENCH REPUBLIC AND
TERRITORIES ADMINISTERED AS SUCH

The Delegation of the Overseas Territories of the French Republic reserves the right to transfer the frequencies of one Territory of the French Union to another, on condition that these changes cause no harmful interference to those countries sharing the same channels.

TURKEY

1. The Turkish Administration reserves the right to take the necessary steps to ensure proper reception of its transmissions effected on shared channels in the event that other transmitters operating in the same channels should cause harmful interference in the reception areas of the Turkish transmissions.
2. The Turkish Administration reserves its position with regard to the decision of the Conference as to the use of low pass filters. However, it will make every effort to take the decision into consideration to the greatest extent possible, without unconditionally committing itself.

R E S O L U T I O N S

1.

RESOLUTION to the administrative council of the Union concerning the I.F.R.B.

The International High Frequency Broadcasting Conference of Mexico City, considers it necessary for the efficient implementation of the High Frequency Broadcasting Assignment Plan to request the Administrative Council of the International Telecommunication Union to take the necessary steps, including financial provision, in order that the I.F.R.B. may take over the implementation of the said Plan in accordance with the functions given in Annex 1 of the Agreement within the framework of the Atlantic City Convention, the Regulations Annexed thereto, and the High Frequency Broadcasting Agreement.

If the Administrative Council should make known that it finds it impossible to comply with this resolution, the next session of the High Frequency Broadcasting Conference shall consider the solution to be recommended.

2.

RESOLUTION concerning the budget for the T.P.C.

The Plenary Assembly having considered the report of the Budget Committee (Document No. 871),

unanimously decides

1. to approve the provisional budget of the organization for the service of the Secretariat of the T.P.C. in the form indicated under the title "Provisional Budget for the T.P.C.";
2. that the T.P.C. shall create a budget control group, which, on the basis of practical experience, will revise the provisional budget approved in Mexico City in order to submit it in final form to the Administrative Council for approval;

3. that the expenditures incurred by the Secretariat of the T.P.C. shall be borne, in accordance with the regulations of the Convention, by the countries which have participated either directly or by proxy in the present Conference.

PROVISIONAL BUDGET FOR THE T.P.C.

Breakdown of monthly salaries and per diem for the personnel of the Secretariat

				<u>Monthly salaries</u>	<u>Per diem</u>
3 secretaries	at	2 000.- (x) Sw.Frs.		6 000.-	225.-
4 assistants	at	800.- Sw.Frs.		3 200.-	220.-
8 interpreters	at	1 600.- Sw.Frs.		12 800.-	520.-
10 translators	at	1 300.- Sw.Frs.		13 000.-	550.-
9 typists	at	700.- Sw.Frs.		6 300.-	315.- (7)
2 draftsmen	at	900.- Sw.Frs.		1 800.-	-
2 technicians	at	1 000.- Sw.Frs.		2 000.-	65.- (1)
2 operators	at	900.- Sw.Frs.		<u>1 800.-</u>	<u>-</u>
40 persons.....				46 900.-	1 895.-
12 subordinate employees.....				<u>6 000.-</u>	<u>-</u>
				52 900.-	1 895.-
				<u><u>53 000.-</u></u>	<u><u>Sw.Frs.</u></u>
Monthly average: Salaries:				<u>58 000.-</u>	<u>Sw.Frs.</u>
Per diem:					
Total:				111 000.-	Sw.Frs.

(x) The figures in the first column represent average salaries.

Breakdown of general monthly expenditures

1. Simultaneous interpretation: rental of apparatus, etc.....	6 000.-	Sw.Frs.
2. Rental-purchase of typewriters	3 000.-	
3. Mimeograph reproduction service (including supplies and paper, but not personnel)	3 500.-	
4. Multilith service (including supplies and paper, but not personnel)	5 000.-	
5. Photostat service	7 500.-	
6. Installation of cabins for simultaneous interpretation	3 500.-	
7. Office supplies and materials, etc.	<u>1 500.-</u>	
Total:	<u><u>30 000.-</u></u>	

Estimated total monthly expenditures
for the Technical Plan Committee

1. Salaries and per diem	111 000.-	Sw.Frs.
2. General Expenditures	<u>30 000.-</u>	Sw.Frs.
	141 000.-	Sw.Frs.
3. 15% for miscellaneous and unforeseen expenditures, including possible rental of office space and office furniture, etc.....	<u>21 150.-</u>	Sw.Frs.
ESTIMATED MONTHLY TOTAL:	162 150.-	Sw.Frs.

3.

RESOLUTION concerning the time and place of the next session of the High Frequency Broadcasting Conference.

The Plenary Assembly,

considering:

a) that in a circular telegram No. 31/4 dated April 4th, the Secretary General of the Union advised the Members of the Union that it will be absolutely impossible for the Secretary General to supply either personnel or space for any additional conference in Geneva prior to 1950;

b) that it is essential that the second session of the High Frequency Broadcasting Conference shall convene in ample time to permit the completion and approval of the Mexico City Plan for submission to the Special Administrative Conference convening to approve the International Frequency List;

c) that the Italian Government has kindly accepted to receive the next session of the High Frequency Broadcasting Conference,

unanimously recommends to the Administrative Council:

1. that the next session of the High Frequency Broadcasting Conference be convened in Italy, in a town the name of which will be communicated to the Secretary General at the appropriate time and
2. that the date thereof be established by the Administrative Council during its fourth session taking cognizance that the completion of the work of the second session of the High Frequency Broadcasting Conference be assured to permit the assignment Plan to be submitted to the Special Administrative Conference on the International Frequency List before the termination of the latter.

