

PROTOCOL CONCERNING
THE USE OF CHANNELS IN THE 932.5-935 MHZ AND THE
941.5-944 MHZ BANDS FOR FIXED POINT-TO-POINT SERVICES
ALONG THE COMMON BORDER

This Protocol is being concluded pursuant to the Agreement Between the Government of the United States of America and the Government of the United Mexican States Concerning the Allocation and Use of Frequency Bands by Terrestrial Non-Broadcasting Radiocommunication Services Along the Common Border signed June 16, 1994, herein referred to as the Agreement.

ARTICLE I. Purposes

The purposes of this Protocol are:

1. To establish and adopt a common plan for the use of the 932.5-935 and 941.5-944 MHz bands within a distance of 60 kilometers on each side of the common border (Sharing Zone) for fixed point-to-point radiocommunication stations.

2. To establish the technical criteria that will permit each Administration to have equitable access to the available channels.

3. To establish conditions of use so that each Administration may use the channels allotted to the other country, provided this causes no interference.

ARTICLE II. Definition

For the purpose of this Protocol and as provided for in Article IV of the Agreement, the term Administration(s) shall refer to the Federal Communications Commission and the National Telecommunications and Information Administration of the United States of America and the Secretaria de Comunicaciones y Transportes of the United Mexican States.

ARTICLE III. Conditions of Use

1. In the Sharing Zone, the frequencies in the 932.5-935 MHz and 941.5-944 MHz bands shall be shared by the Administrations in accordance with the channeling plan in Appendix I* to this Protocol, which is an integral part hereof. These frequencies can be used singly but any paired use must be in accordance with the Table.

2. For each of the emission bandwidths provided for in Appendix I, the individual channels are designated as being either for the primary use of Mexico or the primary use of the United States of America or reserved for future use.

* In recognition of the fact that Mexico needs to move its present users of these frequencies in the bands 932.5-935 MHz and 941.5-944 MHz to other frequency bands before it can make use of the new frequency allocation, the parties have agreed to this protocol and channeling plan until action is taken under Articles VII and VIII. It is the objective of the Administrations to replace the channeling plan and promote the most efficient use of the channels and maximize the sharing of the channels by both countries.

ARTICLE IV. Technical Criteria.

1. For fixed point-to-point stations in the Sharing Zone, the maximum equivalent isotropically radiated power shall not exceed 26 dBW (400 watts) within 120 degrees in the direction of the common border.

2. The stations must employ antennas that meet or exceed the performance standards for Category B. Category A antennas may be required where coordination or interference problems can be resolved by their use. (See the Table, below.) If Category A antennas are necessary to allow a proposed assignment to be made, they must be employed, beginning with the Administration proposing the assignment.

Table of Antenna Performance Standards

Antenna Category	Maximum Beamwidth to 3 dB Points (included angle in degrees)	Minimum Radiation Suppression to Angle in Degrees from Centerline of Main Beam in Decibels					
		10° to 15°	15° to 20°	20° to 30°	30° to 100°	100° to 140°	140° to 180°
A	14	6	11	14	17	20	24
B	20	-	6	10	13	15	20

ARTICLE V. Transborder Traffic

Transborder transmissions by means of private point-to-point links are permitted subject to the authorizations by both administrations in accordance with their regulations in force. Requests for coordination for this type of transmission shall include information on the transborder service to be provided. See Appendix II.

ARTICLE VI. Exchange of Information

In October of each year, the Federal Communications Commission of the United States of America and the Secretaria de Comunicaciones y Transportes of the United Mexican States shall exchange recapitulative lists of all the assignments made by their countries in the 932.5-935 MHz and 941.5-944 MHz bands within the Sharing Zone, in accordance with Appendix II.

ARTICLE VII. Negotiation of a New Protocol

Two years from the date of the entry into force of this Protocol, the Administrations shall initiate a review of the use of the bands with the objective of preparing a new Protocol prior to the termination of this Protocol which maximizes the use of the radio electric spectrum, while keeping in mind the existing assignments and the needs of the two countries.

ARTICLE VIII. Entry Into Force and Termination

This Protocol shall enter into force on the date of signing. It shall remain in force until it is replaced by a new Protocol. If a replacement Protocol is not concluded within three years from the entry into force of this Protocol, it is terminated on that date, unless it is mutually agreed by the Administrations to extend it.

IN WITNESS WHEREOF, the respective representatives have signed the present Protocol.

Done at Morelia, Michoacán, this twenty-sixth day of April, 1996, in duplicate, in the English and Spanish languages, both texts being equally authentic.

FOR THE GOVERNMENT OF THE
UNITED STATES OF AMERICA:

Jonny B. McClane
Larry King

FOR THE GOVERNMENT OF THE
UNITED MEXICAN STATES:

[Signature]

APPENDIX I

TABLE OF CHANNELS

932.5 - 935 and 941.5 - 945 MHz Bands

Paired Frequencies for Point-to-Point Assignments

25 kHz Bandwidth Pairs

<u>MHz</u>	<u>MHz</u>	
932.5125	941.5125	
932.5375	941.5375	
932.5625	941.5625	
932.5875	941.5875	Mexico
932.6125	941.6125	
932.6375	941.6375	
932.6625	941.6625	
934.8375	943.8375	
934.8625	943.8625	
934.8875	943.8875	
934.9125	943.9125	United
934.9375	943.9375	States
934.9625	943.9625	
934.9875	943.9875	

50 kHz Bandwidth Pairs

<u>MHz</u>	<u>MHz</u>	
932.7000	941.7000	Mexico
932.7500	941.7500	Reserved*
934.8000	943.8000	United States

100 kHz Bandwidth Pairs

<u>MHz</u>	<u>MHz</u>	
932.8250	941.8250	
932.9250	941.9250	Mexico
933.0250	942.0250	
934.5250	943.5250	
934.6250	943.6250	United
934.7250	943.7250	States

200 kHz Bandwidth Pairs

<u>MHz</u>	<u>MHz</u>	
933.1750	942.1750	
933.3750	942.3750	Mexico
933.5750	942.5750	
933.7750	942.7750	Reserved*
933.9750	942.9750	United
934.1750	943.1750	States
934.3750	943.3750	

* An assignment on a reserved channel can be made by one country only with the concurrence of the other country. An administration requesting concurrence for such an assignment shall provide full justification for its need including an indication that it is not able to satisfy its requirement on any other frequency in the channel plan. Such assignments will be coordinated on a case-by-case basis.

APPENDIX II

DATA ELEMENTS USED FOR THE EXCHANGE OF LISTS OF ASSIGNMENTS*

- (a) identify number for the assignment;
- (b) radio frequency in Megahertz;
- (c) locations: city and state of the transmitter and receiver;
- (d) latitude and longitude of the transmitter antenna and receiver antenna (degrees, minutes, seconds);
- (e) emission designator for each carrier;
- (f) total e.i.r.p. in dBW for each carrier;
- (g) transmitter antenna azimuth;
- (h) transmitter antenna polarization
- (i) maximum transmitter antenna gain in dBi;
- (j) transmitter antenna site ground elevation in meters above mean sea level;
- (k) transmitter antenna radiation centerline height above ground in meters;
- (l) transmitter antenna manufacturer and model number;
- (m) transmitter antenna performance (Category A, B or other);
- (n) any other optional information.

* If an administration submits a request for coordination, such a request should include as a minimum, the data elements listed in this Appendix.