PUBLIC SAFETY RADIO

COMMUNICATIONS PLAN

FOR

REGION 50

THE STATE OF TEXAS

January 30, 1992

ACKNOWLEDGEMENT

The Public Safety Radio Communications Plan for Region 50 provides operations and system design requirements in response to Federal Communications Commission Report and Order 87-112. This Plan establishes the structure by which eligible agencies may request frequencies from the 821-824/866-869 MHz band. Written by the Regional Communications Planning Committee - Region 50, it represents months of effort by some of the most experienced public safety communications personnel in West Texas.

The Region 50 Plan has benefitted significantly from the Region 40 Plan, the Region 23 Plan, and the APCO Plan. Region 50 has recognized the need for compatibility with contiguous Regions, and opted to partake of those plans for that purpose. The Region 50 Committee believes that somewhat standardized plans for the State of Texas will be of benefit to all Regions within the State.

I would like to thank the staffs of the four regional planning commissions included in Region 50: Rio Grande Council of Governments, Permian Basin Regional Planning Commission, Concho Valley Council of Governments and West Central Texas Council of Governments, and the staffs of APCO and CET.

It is our sincere hope that this plan will eventually be used to alleviate the age old problems associated with the lack of inter-operability between all Public Safety/Public Safety entities, be they Local, County, State or Federal.

B. John McDaniel
Regional Communications Planning
Committee - Region 50

PUBLIC SAFETY RADIO

COMMUNICATIONS PLAN

FOR

* REGION FIFTY *

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1.0 SCOPE

1.1 INTRODUCTION

In December of 1983, the United States Congress directed the Federal Communications Commission (FCC) to establish a plan to ensure that the communications needs of state and local public safety authorities would be met. By their regular means of initiation, the FCC began the process of developing such a plan. Through their efforts, and the efforts of the National Public Safety Planning Advisory Committee (NPSPAC) the plan was begun.

The National Public Safety Planning Advisory Committee provided an opportunity for the public safety community and other interested members of the public to participate in an overall spectrum management approach by recommending policy guidelines, technical standards, and procedures to satisfy public safety needs for the foreseeable future. After consideration of NPSPAC's Final Report and comments filed in Docket No. 87-112, a Report and Order was released by the FCC in December 1987, which established a structure for the National Plan that consists of guidelines for the development of regional plans.

The National Plan provides guidelines for the development of regional plans. The particulars of this plan are found in FCC 87-359, which contains the required steps and contents for regional plan development. It is on this document that this plan is developed.

1.2 PURPOSE

Public safety communications has, for many years, been inadequate throughout the United States. This is as true for Texas as it is for any other state. Many, if not all, public safety radio users are constantly bombarded with outside interference, noise, and over crowding. It is with these problems in mind that this plan was developed.

This regional plan was developed with the objective of assuring all levels of public safety/public service agencies that radio communications in the near and distant future will not suffer from the problems of the past. The allocation of frequencies was done in as equitable a way as possible. The goal was to supply a pool of frequencies for each county and a pool for state agency use with adequate reserve allocations for future needs in all areas, and a method to appeal initial allocations based on need.

The National Plan, as developed by NPSPAC, was followed very closely in all considerations for frequency allocation, re-use, turn back, regional interoperability, spectrum requirements and adjacent region operations. This plan should provide the flexibility to accommodate the growth and changes which are bound to occur in public safety and public service communications operations long into the future.

2.0 AUTHORITY

2.1 REGIONAL PLANNING COMMITTEE

The development of the Public-Safety Radio Communications Plan for Region 50, one of several regions in the State of Texas, has followed the requirements of the FCC's Report and Order as issued in the matter of General Docket 87-112.

In accordance with the FCC's Report and Order 87-112, the Associated Public-Safety Communications Officers Inc. (APCO) recommended to the Commission the appointment of a "Convener" for Texas, Region 50. The Convener served as the coordinator for the assembly and formation of the planning committee.

Key participants in the formation of the Regional Planning Committee represent interested parties from both the Public Safety and Special Emergency Radio Services. A total of more than 20 individuals have participated in the development process. The list herein contains the names, organizational affiliations, mailing addresses and phone numbers of all participants in the Regional Planning Committee.

The committee was selected by attendance at the planning meetings. Each member of the Committee representing an eligible licensee under the Public Safety Radio Services and the Special Emergency Radio Services was entitled to one vote in all Committee matters. Except as may be provided elsewhere in the Plan, the majority of those present at a scheduled meeting constituted a majority for all business. Only the final approval of the plan prior to submission to the FCC required a vote from more than would be in attendance at a regular meeting. In this case the vote was conducted by mail ballot sent to all those who had participated in the planning process. This way, the finished plan was reviewed and accepted by the widest, within reason, group of public safety/public service users.

2.2 PLANNING COMMITTEE FORMATION

The process of forming the Planning Committee was conducted in the following steps:

1. A personal interview was held with the representative of all major state agency radio users.

2. Presentations concerning the requirements for a regional planning committee were presented and discussed at state APCO meetings. At each presentation there was an opportunity for persons to place themselves and/or their agency on the mailing list.

3. A public notice was placed in an area newspaper with Regional distribution, for the first planning committee meeting. This first meeting was held at the Permian Basin Regional Planning Commission, Midland International Airport, 2514 Pliska Drive, Midland County, Texas, a public facility. (See Appendix A).

2.2 PLANNING COMMITTEE FORMATION (continued)

4. The chairperson was elected at the first Organization Meeting.

5. Committee membership was left open to any person or agency which may not have been notified or decided to join the committee later.

6. Vendors participation was encouraged, but vendors were not allowed a vote.

7. A Regional Bulletin was sent to all law enforcement agencies via the Texas Law Enforcement Telecommunications Network (TLETS). (See Appendix A).

2.3 NATIONAL INTERRELATIONSHIPS

The Regional Plan is in conformity with the National Plan. If there is a conflict between the two plans, the National Plan will govern. It is expected that Regional Plans for other areas of the country may differ from this plan due to the broad differences in circumstance, geography, and population density. By officially sanctioning this plan the Federal Communications Commission agrees to its conformity to the National Plan. Nothing in the Plan is to interfere with the proper functions and duties of the organizations appointed by the FCC for frequency coordination in the Private Land Mobile Radio Services, but rather it provides procedures that are the consensus of the Public Safety Radio Services and Special Emergency Radio Service user agencies in this Region. If there is a perceived conflict then the judgment of the FCC will prevail.

2.4 FEDERAL INTEROPERABILITY

Interoperability between the Federal, State and Local Governments during both daily and disaster operations will primarily take place on the five common channels identified in the National Plan. Additionally, through the use of S-160 or equivalent agreements, a licensee may permit Federal use of a non-Federal communications system. Such use, on other than the five identified common channels, is to be in full compliance with FCC requirements for government use of non-government frequencies (Title 47 CFR, sec 2.103). It is permissible for a non-Federal government licensee to increase channel requirements to account for 2-10 percent increase in mobile units, dependent on the amount of Federal Government Agencies involvement in its area, provided that written documentation from Federal agencies supports at least that number of increased units.

2.5 REGIONAL REVIEW COMMITTEE

Upon approval of this Plan by the Federal Communications Commission, a Region Review Committee will be established for the review of applications which do not fall within the stated guidelines provided for in this plan, or for the

2.5 REGIONAL REVIEW COMMITTEE (continued)

settlement of disputes concerning this plan and/or its application.

This committee shall consist of each of the following agencies/organizations: a Council of Governments representative, a Municipal Police representative, a Fire service representative, a Sheriff's Department representative, an Emergency Medical services representative, and a representative jointly appointed by the Texas Department of Public Safety and the Texas State Highway Department. This committee and its composition each of the following agencies: State, Municipal Police, Fire, Sheriff, Emergency Medical Service, and a representative from other eligibles will also be welcome. This committee and its composition will be assured by the Texas APCO chapter and other Public Safety organizations. Membership on this committee will be solicited on an annual basis. Since this committee will probably not have regular business, it will be up to the Region 50 Chairman to notify the committee of problems, conflicts, or when it becomes apparent that spectrum demands will outpace available spectrum. Each member of the committee shall be furnished a copy of this plan upon their appointment or election to the committee.

Plan updates shall be accomplished by this committee. All changes or updates to the plan shall be first agreed upon by this committee and then submitted to the FCC for their review and consideration. When approved all changes shall be added to the plan with the appropriate documentation of approval.

This committee shall meet at least once annually to review the implementation of the plan. This review shall consist of examination of any and all license activity.

3.0 SPECTRUM UTILIZATION

This portion of the Plan provides a basis for proper spectrum utilization. Its purpose is to guide the Local APCO Frequency Advisor and/or the Regional Review Committee in their task of evaluating the implementation of this plan within this Region.

3.1 REGION DEFINED

Region 50 is within the State of Texas. This region is the result of definition by the Federal Communications Commission as a result of recommendations made in the National Public Safety Planning Advisory Committee (NPSPAC) plan as submitted and approved and contained in Docket 87-112.

3.2 REGION PROFILE (DEMOGRAPHIC INFORMATION)

The purpose of this section is to provide the basis for the assignment of frequencies, and their re-use. Since the frequency allocation formula used is

3.2 REGION PROFILE (DEMOGRAPHIC INFORMATION) (continued

based on population within a county, it is necessary to provide this information within this plan. Below is the data used in the determination of frequency allocations.

Region 50 Population by County

El Paso	578,652
Hudspeth	2,314
Culberson	3,172
Jeff Davis	1,800
Presidio	5,608
Brewster	8,169
Gaines	13,211
Dawson	15,295
Borden	812
Andrews	15,379
Martin	4,905
Howard	33,646
Loving	61
Winkler	8,495
Ector	122,309
Midland	103,935
Glasscock	1,226
Ward	13,863
Crane	4,520
Upton	4,914
Reeves	14,637
Pecos	15,038
Terrell	1,614
Knox	5,227
Kent	1,130
Stonewall	2,284
Haskell	6,703
Throckmorton	2,016
Shackleford	3,668
Scurry	18,407
Fisher	5,432
Jones	17,113
Comanche	12,615
Stephens	10,443
Mitchell	8,887
Nolan	17,106
Taylor	122,797
Callahan	12,759
Eastland	20,526
Runnels	12,121
Coleman	10,358
Brown	34,154
Irion	1,980

3.2 REGION PROFILE (DEMOGRAPHIC INFORMATION) (continued)

Tom Green	98,587
Concho	2,494
McCulloch	8,855
Crockett	4,205
Schleicher	2,897
Menard	2,407
Mason	3,402
Sutton	4,390
Kimble	4,182
Sterling	1,514
Coke	3,563
TOTAL	**1,440,008**

SOURCE: From the annual projection of populations from the State Data Center of the Texas Department of Commerce for July 1, 1987. The estimates are prepared by the Department of Rural Sociology, Texas A&M University.

3.2.1 REGION 50 POPULATION AND EXPECTED GROWTH PERCENTAGE

The population of the Region 50 is divided between urban and rural residence. The urban population is some 71 percent and the rural 29 percent. The population within developed urban areas is about 1,026,180. Rural area population is about 413,828 for an approximate total of 1,440,008.

3.2.2 GEOGRAPHICAL DESCRIPTION

There are 55 counties in Region 50 with a total land mass of 78,562 square miles. The largest county is Brewster, with a total of 6,169 square miles. There are no water areas of significance. Region 50 includes a portion of Central, and all of West Texas.

As is shown above, the population of Region 50 is not evenly distributed across the land area contained in the Region. This presents some problems in area coverage for radio systems in that the entire land area of any given jurisdiction must be covered. The population per square mile is somewhat sparse which generally indicates that the concentration of radio users for public safety activities is also sparse, except for major metropolitan areas. There are approximately five (5) major population areas in Region 50. Terrain in Region 50 includes mountains, rolling hills and rolling plains. All of these items were taken under consideration in the allocation plan.

3.3 USAGE GUIDELINES

All systems operating within the Region having five or more channels will be required to be trunked. Those systems having four or less channels may be conventional or trunked.

3.3 **USAGE GUIDELINES** (continued)

The FCC, in its Report and Order states, "Exceptions will be permitted only when a substantial showing is made that alternative technology would be at least as efficient as trunking or that trunking would not meet operational requirements. Exceptions will not be granted routinely, however, and strong evidence showing why trunking is unacceptable must be presented in support of any request for exception."

Systems of four or less channels operating in the conventional mode who do not meet FCC loading standards will be required to share the frequency on a non-exclusive basis.

Public Safety communications at the state level, as it impacts the Region, will be reviewed by the Committee. State-wide public safety agencies will submit their communications plans for impact approval if they utilize communications systems within the Region and those portions of such systems must be compatible with the Regional Plan.

The next level of communication coverage will be a county/multiple municipality area. Those systems that are designed to provide area communication coverage must demonstrate their need to require such wide area coverage.

This would apply in a situation such as a city requesting coverage of an entire county. Communication coverage beyond the bounds of a jurisdictional area of concern cannot be tolerated unless it is critical to the protection of life and property and the maintenance of essential public services. If the 800 MHz trunked radio technology is utilized, the system design must include as many county/multiple municipality government public safety and public service radio users as can be managed technically.

The county/multiple municipality agency(ies), depending upon systems loading and the need for multiple systems within an area, must provide intercommunications between area-wide systems. In a multi-agency environment, a lead agency using the 800 MHz spectrum, which is an agency or organization having primary response obligations in the geographic area, shall be responsible for coordinating the implementation the Common Channels in this band as mandated by the National Plan. Such implementation must be reviewed and approved by the Local APCO Frequency Advisor, and at his/her discretion, the Regional Review Committee.

Municipal terminology often differs. In order to provide a title for the next level of communications the term City is used to define the level below county-wide. City communications for public safety and public services purposes must provide only the communications needed within its boundaries. However, if the total number of radios in service does not reach minimum loading criteria for a trunked system, that must consider utilizing the next higher system level if 800 MHz trunked radio is available in the area. As those higher level systems reach capacity, the smaller system communicators in public safety and public service must then consider uniting their communications efforts to formulate one large system or forfeit use of the limited 800 MHz spectrum.

3.3 USAGE GUIDELINES (continued)

Where smaller conventional 800 MHz needs are requested, those frequencies to be utilized must not interfere with the region's trunked systems. The 800 MHz trunked radio system is to be considered the higher technology at this time and in greater compliance with FCC guidelines. The amount of interference that can be tolerated depends on the service affected. Personal life and property protection shall receive the highest priority and disruptive interference with communications involved in these services in an area shall not be tolerated. Any co-channel interference within an authorized area of coverage will be examined on a case by case basis by the Regional Review Committee. Protection ratios must be maintained and adhered to.

3.4 TECHNICAL DESIGN REQUIREMENTS FOR LICENSING

3.4.1 DEFINITION OF COVERAGE AREA OR AREA OF JURISDICTION

The coverage area shall be that area for which a system is intended to cover with a received signal strength of greater than 40 dBu. This area shall normally represent the boundaries of the County or the incorporated municipality which is applying for license. In the case of regional or area-wide, multi-jurisdictional systems, the coverage shall be that area of all jurisdictions participating in the system combined.

3.4.2 SYSTEM COVERAGE LIMITATIONS

System coverage shall be limited to the coverage area defined as listed above plus no more than five (5) additional miles in all directions extending from said boundaries of definition. This limitation shall assure maximum frequency reuse. The only exception to this rule shall be those applicants wishing to offer service or system use to areas outside of their jurisdictional boundaries. In these situations the applicant shall provide a proposal of said service to the Local APCO Frequency Advisor, who may request Regional Review Committee consideration, for approval.

Systems not located within the geographical center of the jurisdiction(s) for which they cover shall utilize either directional antennas or antenna/tower relationship techniques to achieve the coverage required by this plan.

3.4.3 DETERMINATION OF COVERAGE

There are four variables used in determining the area of coverage of a proposed system. These variables are (1) the required strength of the received signal, (2) antenna height above average terrain (HAAT), (3) the effective radiated power (ERP) of the system, and (4) the type of environment.

Received Signal Strength:

3.4.3 **DETERMINATION OF COVERAGE** - continued

For purposes of this plan, received signal strength shall be the determining factor which defines the actual boundary of a system. The minimum signal level which marks the outer boundary of a system shall be 40 dBu.

Antenna Height:

Shall be the height of the antenna above the average terrain surrounding the tower site.

Effective Radiated Power (ERP):

The ERP is the transmitter output power times the net gain of the antenna system. The actual formula is: ERP (w) equals Power(w) times Antilog (net gain in dB divided by 10).

Environment Type:

OKUMURA/HATA METHOD - The Okumura method uses four different classifications to describe the average terrain around a transmitter site or area. The classifications are:

1-URBAN; Which is built-up city-crowded with large buildings or closely interspersed with houses and thickly-grown trees. This would include the downtown area of a major city.

2-SUBURBAN; Which is a city of highway scattered with trees, houses and buildings. This would include the downtown area of a large city.

3-QUASI-OPEN; Is an area between suburban and open areas. This includes areas outside of city limits that have few buildings and houses.

4-OPEN; Is and area where there are no obstacles such as tall trees or buildings in the propagation path or a plot of land which is cleared of anything for 300 to 400 meters ahead. This would include farm land, open fields, etc.

The Okumura/Hata method is the method resident in the computer packing program to develop this plan. A minimum system shall be permitted without special consideration when it is limited to an HAAT of 100 feet to the tip of the antenna, and the transmitter is centrally located within the jurisdiction or jurisdictions participating in a system. In all jurisdictions, regardless of size, a maximum boundary radius of 16 miles shall be allowed provided adequate measures have been taken to assure that interference of existing co-channel and adjacent channel systems will not occur. Preparation of these requirements shall be the responsibility of the applicant. The Federal Communications Commission provides, in part 90.309(a)(4) of the Rules and Regulations, some additional guidance for these calculations. The Carey Curve Method is also an acceptable method, and may be used in the determination of coverage area.

3.4.4 ANNEXATIONS AND OTHER EXPANSIONS

It is well known that as cities grow, annexations occur. When an expansion of the present city limits of any city currently using an 800 megahertz system within the spectrum as herein specified occurs, it is understood that the existing system may have to be expanded and its range increased. This is a modification and may be permitted. The increased range of the system will have to be determined at the time of modification to assure non-interference with any other existing system. Where interference is likely, the use of alternate methods of expansion, such as satellite systems, may be necessary.

Should the annexation or expansion of a city effectively take in all or most of a county, the allocation for that county may be given to the city if required by said city and not in use or planned to be used by the county. Where more spectrum is not available from the initial allocation, the rules for expansion of initial allocation, as contained in this plan, shall apply.

3.4.5 COVERAGE AREA DESCRIPTION

All applicants shall provide with their applications a map showing the jurisdictional boundaries to be covered by the system, and the calculated system coverage. This map shall display the location of the system transmitter(s), including control stations. It is recommended that a U.S. Geological Survey (USGS) Quad topographical map be used for this purpose. If not available, a high quality locally produced map or a highway map may be substituted. Regardless of the type map used, the name of the applicant and the scale of the map shall be displayed on the map.

The following table lists the field strength in dBu/KW versus distance and antenna height for the suburban environment. The adjustment factors for the other environments relative to the suburban environment are:

Urban = Suburban - 9.7 dB,
Quasi-open = Suburban + 9.2 dB,
Open = Suburban + 18.4 dB

3.4.6 REASSIGNMENT OF FREQUENCIES

All agencies participating in the use of the new 800 megahertz spectrum shall prepare and submit a plan for the abandonment of their currently licensed frequencies in the lower bands. These regional planning committees would have the freedom to consider below -800 MHz public safety banks in developing their regional plans, but the licensing of channels in these banks would continue to be conducted through existing frequency coordination procedures.

Frequencies which are to be abandoned by an agency shall not be handed down to another agency within the respective jurisdiction. It is recommended that any jurisdiction wishing to "hand down" frequencies to another agency submit the proper coordination and application forms with the document of release.

3.4.6 REASSIGNMENT OF FREQUENCIES - continued

The time frame allowed for phasing into 800 MHz and out of the lower currently licensed bands will be considered on a case by case basis by the review committee. Generally, one year will be considered acceptable in most cases, with two years as a maximum. Any agency requiring more than two years shall provide documents stating the reasons for the delay, and give the estimated time of completion.

3.4.7 UNUSED SPECTRUM

Due to the fact that all of the frequency spectrum is not needed at this time, the excess channel pairs will be returned to a reserve pool. These channels may be used for conflict with adjacent Region allocations or may simply remain within this Region until needed. This does not imply that these frequencies are unavailable, only that before they can be utilized within the Region they must be coordinated via the regular APCO coordination process and within the guidelines set forth in this plan. Where possible, the channels designated for a jurisdiction in this plan shall be used.

3.4.8 ADJACENT REGION CONSIDERATIONS

Coordination with adjacent regions shall be an on-going process until all region plans have been finalized. At present, all adjacent regions have been coordinated with and no conflicts have been identified. The adjacent regions with which coordination has been conducted are: Region 29; Region 40; Region 49; Region 52; and Region 53. (APPENDIX B)

As the use of the five National channels is not considered a day-to-day function, the "hard" coordination for the use of these channels is not considered to be necessary or advisable. The use of these channels will always be on a non-interference basis, with on-the-air coordination at the time of use when required. Any user found to be operating in any manner other than this shall be considered to be operating improperly and subject to the existing Federal Communications Commission rules for willful interference with the communications of other users.

3.5 INITIAL SPECTRUM ALLOCATION

3.5.1 FREQUENCY SORTING METHODOLOGY

The initial spectrum allocation for the Region was determined by a computerized frequency sorting process performed by APCO/CET. The purpose of the computer program which assigns frequencies to specific eligibles and to pools for future assignments is two-fold:

3.5.1 FREQUENCY SORTING METHODOLOGY - continued

A) The assignments must result in a high degree of spectrum efficiency, and
B) The assignments must result in a low probability of co-channel and adjacent channel interference.

Since the desired output is a geographic sorting of frequencies, a method of defining geography must be part of the input. A list of the number of channels to be assigned in each geographic area is also required, along with the name of the eligible or pool.

Acceptable interference probabilities are determined for the Region. Frequency assignments are then made using a computer program which satisfies the goals of spectrum efficiency and interference protection. The following narrative describes the factors and process used by the computer program.

3.5.2 GEOGRAPHIC AREA

For the purpose of this frequency sort, a geographic area is defined as one or more circles of equal radius. To the degree practical, the circle(s) should include the entire area of the eligible's geopolitical boundary, but not exceed the boundary by more than three (3) miles. Thus, the procedure is to gather maps of sufficient detail, outline the areas to be defined, determine the coordinates and radius of the circles which define each area, and tabulate the data.

3.5.3 DEFINE THE ENVIRONMENT

The environment of each system is defined according to the Okumura/Hata method of classifications.

3.5.4 BLOCKED CHANNELS

In the Region there are five mutual aid channels which must be blocked out to prevent the computer from making assignments on these channels. (Since the mutual aid channels are spaced at 0.5 MHz intervals, other Region-wide systems are spaced at 0.5 MHz and placed adjacent to the mutual aid channels. This procedure reduces the impact of blocked adjacent channels by virtue of the fact that the channel plan already has protection spacing on each side of the mutual aid channels.)

These similar provisions were made for those channels assigned to State Agencies on a state-wide basis, and channels affected by 47 CFR Part 90 Sec. 90.601 and 90.619, concerning counties within 68.4 miles of the Mexican border blocked channels are identified by FCC channel number, tabulated and they become input to the computer program.

3.5.5 TRANSMITTER COMBINING

The computer program is designed to provide a minimum frequency separation between any two channels assigned to the same eligible at the same site. This separation is provided in order to enable more efficient combining of multiple transmitters to a single antenna. These separated blocks of frequencies also have a maximum size. That is, if the eligible has more frequencies than the maximum size of the combining block, then a second compatible block is created, and so on. Each of these parameters is adjustable in the program on a global basis. The default parameters chosen are 0.25 MHz minimum spacing and five channel blocks.

3.5.6 SPECIAL CONSIDERATIONS

There are licensees in the 806-821/852-866 MHz spectrum who plan to expand existing systems into the 821-824/866-869 MHz bands. Some of the existing radio units are unable to operate on 12.5 MHz separated carrier frequencies. The result is that these radios can only operate on "even" FCC numbered channels in the 821-824/866-869 MHz band. The computer program is able to take this into account when making assignments.

3.5.7 PROTECTION RATIOS

There are two interference protection ratios built into the computer program. One is for the co-channel case, the other is for the adjacent channel case. The ratios provide 35 dB Desired/Undesired signal ratio for co-channel assignments, and 15 dB Desired/Undesired ratio for the adjacent channel case. These ratios provide an acceptable probability of interference for Public Safety Services.

3.5.8 ADJACENT REGION COORDINATION

The computer program requires a listing of channels to be blocked along the borderline with other regions which have pre-existing plans. If the adjacent region plan was developed using the APCO/CET packing program, this information exists in the database. The Region 40 plan was developed by another method, and the data was obtained from that region's plan in order to build the exclusion list.

3.6 CONTROL STATIONS

Control stations within a system shall be limited in both transmit power, and antenna orientation. The control station design shall be such that the received signal strength at the mobile relay is approximately 6 dB above the signal of a mobile unit transmitting from the same location of the control station.

3.6 CONTROL STATIONS (continued)

As with other stationary elements of a system, the location of all control stations shall be given, by street address, latitude and longitude. Ground elevation, antenna height, transmitter power and antenna type and orientation shall be given.

3.7 CONTROL STATIONS USED AS BACKUP SYSTEM

It is understood that some jurisdictions and/or system users will desire some method of system backup that is both effective and inexpensive. Although provisions have not been made for this in either the Federal Communications Commissions Rules and Regulations or in the NPSPAC plan, an attempt shall be made in the provisions of this Regional plan to allow such operation.

The use of a control station as a system backup makes good application and economical sense. Some minor changes may be necessary in some applications to avoid interference with adjacent systems or co-channel systems. These changes are listed below:

a. The antenna used for control purposes must be of the directional (yagi) design so that received signal strength at the mobile relay is as mentioned above. The antenna used for backup will usually be of the omni-directional type, but may be directional is required, as in the mobile relay, the antenna height above average terrain and the gain of the antenna, coupled with the transmitter power must be given as listed above.

b. The calculated coverage of the backup station shall be mapped as is the mobile relay. A method to switch between antennas must be used. The method chosen shall be included in the application for license, as well as the written plan for the use of the control/backup station.

4.0 COMMUNICATIONS REQUIREMENTS

4.1 COMMON CHANNEL IMPLEMENTATION

The implementation of the International Common Channels must follow the guidelines as set forth by the Federal Communications Commission by the approval of the National Plan. These five common channels are accessible by all levels of government and shall be used in accordance with the provisions of the National Plan. All mobile and portable equipment must be equipped to operate in the "talkaround mode" when required on the International Channels.

The International calling channel (821/866.0125 MHz) shall be implemented as a full mobile relay. Wide area coverage transmitters will be installed where applicable within a system. Large system users (5 channels or more) of 800 MHz

shall be required to monitor this channel at all times. The area of coverage for this channel shall be equal to the area covered by the licensed system. This may or may not require the use of satellite receivers within the area to meet this requirement.

The four International Tactical (ITAC) Channels will be assigned State-wide, for use as needed by all eligible licensees. These channels are to be used in accordance with the National Plan and in compliance with the regulations as set forth by the Federal Communications Commission. These channels require no special licensing, only that the users be eligible for licensing on the other Public Safety 800 MHz channels as specified in section 90.616 (a) of the FCC Rules and Regulations.

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4.1.1 AREAS OF OPERATION

The common channels shall be available for use throughout the Region. No specific assignments were deemed necessary within the Region.

4.1.2 OPERATION ON THE COMMON CHANNELS

Normally, the five interoperable channels are to be used only for activities requiring inter-communications between agencies not sharing any other compatible communications system. Interoperable channels are not to be used by any level agency for routine, daily operations. In major emergency situations, one or more ITAC channels may be assigned by the primary Public Safety Agency within that area of operation. The primary Public Safety agency in each county, if not defined elsewhere in the plan, shall be the County Sheriff's Department or Public Safety Department or the lead agency, which may be any agency licensed to operate in this spectrum, or "on-scene" commander. The primary Public Safety

4.1.2 OPERATION ON THE COMMON CHANNELS - continued

agency shall be the city level Public Safety Department in situations which occur within the corporate limits of said city. These primary agencies will assign one or more of the ITAC channels for use according to need during each special situation requiring the use of these channels.

Participants in the interoperable channels include Federal, State, and Local Disaster Management agencies. Police, Fire, and providers of Basic and Advanced Life support services will be the primary using agencies. If radio channels are available, other services provided in the Public Safety Radio Services and the Special Emergency Radio Services may also participate to the extent required to insure the safety of the public. These agencies include the Highway Department, Motor Vehicle Comptroller, Forestry, Wildlife and other special service agencies not normally involved in day-to-day public safety operations.

4.1.3 OPERATION PROCEDURES

On all Common Channels, plain English will be used at all times, and the use of unfamiliar terms, phrases, or codes will not be allowed.

4.1.3(I) INTERNATIONAL CALLING CHANNEL (ICALL):

The ICALL channel shall be used to establish contact with other users in a particular Region that can render assistance at an incident. This channel shall not be utilized as an ongoing working channel. Once contact has been established between agencies, an agreed upon ITAC or mutual aid channel shall be used for continued communications.

4.1.3(II) INTERNATIONAL TACTICAL CHANNELS (ITAC-1 - ITAC-4):

These frequencies are reserved for use by those agencies involved in inter-agency communications. Incidents requiring multi-agency participation will utilize these frequencies as directed by the control agency assuming responsibility for an incident or area of concern. These frequencies may be subdivided according to function in an incident or by geographical location in response to an incident. It is recommended that the following assignments for ITAC-1 through ITAC-4 be used when possible.

4.1.3(II) INTERNATIONAL TACTICAL CHANNELS (ITAC-1 - ITAC-4): (continued)

ITAC-1..... Law Enforcement
ITAC-2 .....Fire Services
ITAC-3 .....Emergency Medical Services
ITAC-4 .....Command and Control

4.1.4 CODED SQUELCH

All equipment capable of operating on the five (5) common channels shall be equipped with the National Common Tone Squelch of 156.7 Hz. Mobile relays on these channels, if authorized, may use additional tone or digital squelch codes for the purpose of selecting individual mobile relay stations, provided the National Common Tone Squelch Code is used on the output. If such an arrangement is utilized, provision must also be made for certain centralized, high level sites to be activated by the 156.7 tone to ensure emergency access by transient units.

4.2 NETWORK OPERATING METHODS

Communications systems on ITAC-1 through ITAC-4 will be implemented by agencies who volunteer on a distributed coordinated basis. Every primary geographic section of the Region is intended to be covered by at least one of the ITAC channels. In many areas the common channels will be utilized on a mobile to mobile talk-around basis. Mobile relays on ITAC-1 through ITAC-4 will be on a limited coverage design to permit reuse of the channel several times within the Region and in adjacent regions. Since Region 50 will probably not have a large number of stationary ITAC Channel stations, the implementation of mobile relay or repeaters is strongly encouraged. This will fill an "on-scene" requirement for most multi-agency response situations. Adjacent region coordination will be via existing mutual aid coordination procedures with the requesting region establishing the tactical frequency assignment.

4.3 REQUIREMENTS FOR TRUNKING

All systems operating in the Region having five or more channels will be required to be trunked. Those systems having four or less channels may be conventional. It is strongly suggested that any entity licensing three or more repeaters use trunking.

The FCC in its Report and Order states: "Exceptions will be permitted only when a substantial showing is made that alternative technology would be at least as efficient as trunking or that trunking would not meet operational requirements. Exceptions will not be granted routinely. Strong showings as to why trunking is unacceptable must be presented in support of any request for exception."

Systems that do not meet FCC loading standards can be required to share such frequencies on a non-exclusive basis. Those agencies requesting Data channels only can be required to share channels with adjacent agencies wherever feasible or limit coverage to their geographic area. Exceptions will be considered on a case-by-case basis by the Regional Review Committee.

Depending on systems loading and the need for multiple systems within an area, operators of wide area systems (including, but not limited to, designated "Monitoring Agencies") must provide for coordination between area-wide systems and "Monitoring Agencies". Single municipalities or agencies must restrict

4.3 REQUIREMENTS FOR TRUNKING (continued)

design and implementation of their systems(s) to provide only the communications needed within its geopolitical boundaries. The use of trunked systems is encouraged. However, if the total number of radios in service does not reach minimum loading criteria for a trunked system, that user must consider utilizing the next higher system level if 800 MHz trunked radio is available in the area. As systems reach capacity, the smaller system users must consider consolidating their communications systems to formulate one large trunked system.

A requesting applicant for radio communications in the 800 MHz public safety services in the Region will be required to conform to the FCC loading criteria for its proposed system. The provisions of this regional plan must be used as a guide for establishing any new systems. Strict adherence for limiting the area of coverage to the boundaries of the applicant agency's jurisdiction must be observed. Overlap or extended coverage must be minimized, even where systems utilizing 800 MHz trunked radio systems are proposing to intermix systems for cooperative and/or mutual aid purposes.

Antenna heights are to be limited to provide only the necessary coverage for a system. When antenna locations are restricted to only the "high-ground", transmitter outputs and special antenna patterns must be employed to produce only the necessary coverage with the proper amount of ERP. All necessary precautions are to be taken to gain maximum reuse of the limited 800 MHz spectrum.

4.4 CHANNEL LOADING REQUIREMENTS

An agency/jurisdiction requesting a single frequency to replace a frequency currently in use that will be turned back for reassignment will not be required to meet loading requirements in order to obtain the new frequency. However, if the single frequency is not loaded to more than 50 units within three years after the license is granted, the frequency will be available for assignment to other agencies on a shared basis in the event that other frequencies meeting the criteria for assignment are exhausted. Shared use of a frequency is not interference free. Users of single frequency systems may be required to provide the Regional Review Committee "confirmation of loading" for mobiles and portables as a method of validating system loading. This exception shall apply to agencies having only one system and a single frequency. Agencies/jurisdictions requesting multiple frequencies or employing trunking technology shall comply with the loading standards as outlined below or provide a "Traffic Loading Study" that meets the criteria as outlined below.

4.4.1 LOADING TABLES

EMERGENCY		NON-EMERGENCY	
CHANNELS	UNITS/CHANNEL	CHANNELS	UNITS/CHANNEL
1 - 5	70	1 - 5	80
6 - 10	75	6 - 10	90
11 - 15	80	11 - 15	105
16 - 20	85	16 - 20	120

Agencies requesting additional frequencies must show loading of 100 percent or greater on their existing system. Should a demand for frequencies exist after assignable frequencies become exhausted, any system having frequencies assigned under this plan four or more years previously and not loaded to at least 70 percent will lose operating authority on a sufficient number of frequencies to bring the system into compliance with the 70 percent loading standard. Frequencies lost in this manner will be reallocated to other agencies to help satisfy the demand for additional frequencies.

4.4.2 TRAFFIC LOADING STUDY

Justification for adding frequencies, or retaining existing frequencies, can be provided by a traffic loading study in lieu of loading by number of transmitters per channel. It will be the responsibility of the requesting agency to provide a verifiable study showing sufficient airtime usage to merit additional frequencies. A showing of airtime usage, excluding telephone interconnect air time, during the peak busy hour greater than 70 percent per channel on three consecutive days will be required to satisfy loading criteria.

4.4.3 SLOW GROWTH

All systems in the 821-824/866-869 MHz bands under this will be slow growth in accordance with Section 90.629 of the Commission's rules.

4.5 USE OF LONG RANGE COMMUNICATIONS

During incidents of major proportions, where Public Safety requirements might include the need for long-range communications in and out of a disaster area, alternate radio communications plans are to be addressed by Primary Public Safety agencies within this sub-region. These agencies should integrate the appropriate interface to the long distance communications providers. Such long distance radio communications might be amateur radio operations, satellite communications and/or long range emergency preparedness communications systems, any of or all of which should be incorporated as part of the communications plans of those lead agencies. They then could provide the means to communicate outside the area for themselves and the smaller agencies who might need assistance. Instances as addressed in the National Public Safety Planning Advisory Committee's Plan, such as earthquakes, hurricanes, floods, widespread forest

4.5 USE OF LONG RANGE COMMUNICATIONS - continued

fires, or nuclear reactor problems could be a cause for such long-range communications needs.

4.6 EXPANSION OF EXISTING SYSTEMS

Existing systems that are to be expanded to include the frequency bands of 821-824/866-869 MHz will have the mobile radios "grandfathered", provided that they are modified in conformance with the Memorandum Opinion and Order, FCC Docket 87-112. Primarily this involves reducing the modulation to +/- 4 MHz. Existing base stations in the frequency bands 806-821/851-866 MHz may not be used in the frequency bands 821-824/866-869 MHz.

4.7 AIRCRAFT OPERATION

Radio equipment installed in aircraft that operates on channels in the 821-824/866-869 MHz spectrum shall be limited to a maximum ERP of ONE watt. Individual cases of routine harmful interference at this power level may require reduced ERP at the discretion of the Regional Review Committee.

4.8 USE OF AUTOMATIC TELEPHONE INTERCONNECT

The use of a car radio telephone via automatic interconnect through an 800 MHz trucked radio system or other type two-way radio communications radio system will normally require a significant amount of air time. Therefore, the use of automatic interconnect for radiotelephone is not recommended for individuals or agencies which have a vast need for interconnect, in favor of cellular service, where available.

5.0 IMPLEMENTATION AND PROCEDURES

5.1 NOTIFICATION

Several methods of notification were used to invite interested parties to participate in the development of this plan. A request was made to the Permian Basin Regional Planning Commission, to place a public notice in the newspapers with regional distribution on behalf of the Region 50 Planning Committee. A bulletin announcing the first organizational meeting was transmitted, on several different occasions, over the TLETS (Texas Law Enforcement Telecommunications System) network, to the affected agencies of Region 50, by the Convener. Personal contact was made by the Convener with representatives of several Public Safety/Public Service agencies.

Contact was made with the State Frequency Coordinator for the State of Texas, who is acting on behalf of all State Agencies with reference to the

5.1 NOTIFICATION - continued

National Plan. The State Frequency coordinator was appointed as a resource member of the Regional Planning Committee.

Contact was made with the Regions contiguous to Region 50, including the State of New Mexico, and were appointed as resource members of the Regional Planning Committee.

The first meeting was held at the Permian Basin Regional Planning Commission Building, a public facility, at Midland International Airport. The chairman was elected at the first organizational meeting. During this initial meeting, it was decided that the Region 50 Plan would use the Region 40 Plan, where applicable, as a guideline. Not only would this avoid a duplication of effort, but also attempt to add a degree of conformity to other Texas plans. Ultimately, however, it was decided that the APCO "Generic" plan be used, for these same purposes.

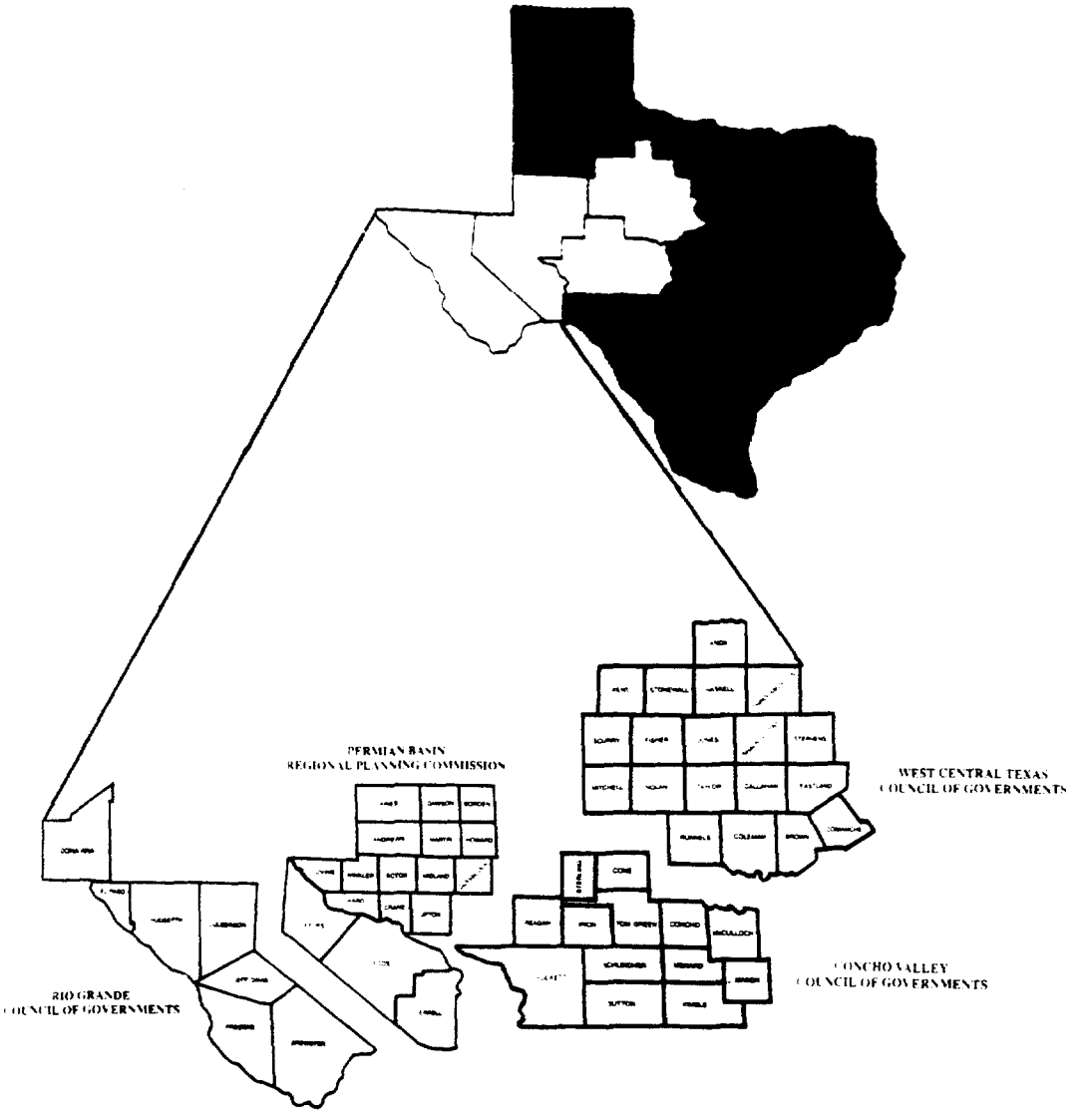
During the initial meeting, names, addresses and telephone numbers of those individuals present who wished to either participate in the planning process, or who wanted to be kept informed on the progress of the planning effort were taken. These individuals or agencies were sent all announcements for meetings and bulletins of progress.

When the work on the plan was completed, a final planning committee meeting was called. This meeting was held at the Concho Valley Council of Governments, Southland Plaza, 5014 Knickerbocker Road, San Angelo, Texas on March 17, 1992, at 9:00 AM CST. Each member of the planning committee was presented with a draft copy of the plan for study. A copy of the final draft was mailed to each member of the committee not present at the meeting. Each plan contained a ballot for voting on the acceptance of the plan.

As with the formation of the committee, a public notice was placed in the Midland Reporter Telegram Newspaper (see APPENDIX B) announcing the completion of the plan and the intention to file with the Federal Communications Commission. This same announcement was also run over the Texas Law Enforcement Telecommunications Network (TLETS).

5.2 FREQUENCY ALLOCATION PROCESS

The method used for "packing" Region 50 was the APCO/CET computerized method. The approximate geographical location for the center of each county, in latitude and longitude, were provided along with the environmental type of the county and the approximate radius to cover the county lines. Along with this information, a list of frequencies to block along the adjacent region's border was included. The number of frequencies allocated to each county has been correlated to population with a minimum of two frequencies per county, and an additional frequency for each 25,000 population above 50,000. The State of Texas has reserved twenty (20) channels statewide. This leaves a reserve pool of channels for future assignment.


PERMIAN BASIN
REGIONAL PLANNING COMMISSION
WEST CENTRAL TEXAS
COUNCIL OF GOVERNMENTS
CONCHO VALLEY
COUNCIL OF GOVERNMENTS
RIO GRANDE
COUNCIL OF GOVERNMENTS

5.4 DATA PACKING PLAN FOR REGION 50

The following pages contain the data, or packing plan generated by APCO/CET via the computerized packing program. The first section is county by county information provided, followed by the packing plan. The plan took adjacent regions into consideration, in addition, letters of concurrence were sent. (APPENDIX C)

**********SINGLE SITE SYSTEMS**********

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
1 * EL PASO INTL AIRPORT	31 45 39	106 29 14	5	8.00	-1.70	200.00	1
2 * MIDLAND INTL AIRPORT	31 56 14	102 12 38	5	7.00	-3.50	200.00	1

********** Multiple Site Systems **********

Site		Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
3	*	SCHLEICHER	65 30 54	8 100 18	2	13.00	-11.00	100.00	3
3	*	SCHLEICHER	66 30 54	8 100 34	2	13.00	-11.00	100.00	3
3	*	SCHLEICHER	67 30 54	8 100 48	2	13.00	-11.00	100.00	3
4	*	KNOX	65 33 41	42 99 35	2	9.00	-21.80	100.00	4
4	*	KNOX	66 33 32	13 99 35	2	9.00	-21.80	100.00	4
4	*	KNOX	67 33 32	13 99 50	2	9.00	-21.80	100.00	4
4	*	KNOX	68 33 43	7 99 50	2	9.00	-21.80	100.00	4
5	*	CONCHO	65 31 26	43 99 46	2	10.00	-20.20	100.00	4
5	*	CONCHO	66 31 12	39 99 45	2	10.00	-20.20	100.00	4
5	*	CONCHO	67 31 12	39 99 58	2	10.00	-20.20	100.00	4
5	*	CONCHO	68 31 26	11 99 58	2	10.00	-20.20	100.00	4
6	*	THROCKMORTON	65 33 16	22 99 6	2	9.00	-3.40	100.00	2
6	*	THROCKMORTON	66 33 4	32 99 6	2	9.00	-3.40	100.00	2
6	*	THROCKMORTON	67 33 4	32 99 21	2	9.00	-3.40	100.00	2
6	*	THROCKMORTON	68 33 16	22 99 21	2	9.00	-3.40	100.00	2
6	*	THROCKMORTON	69 33 9	16 99 13	2	9.00	-3.40	100.00	2
7	*	HASKELL	65 33 16	22 99 35	2	9.00	-21.80	100.00	4
7	*	HASKELL	66 33 4	32 99 35	2	9.00	-21.80	100.00	4
7	*	HASKELL	67 33 4	32 99 50	2	9.00	-21.80	100.00	4
7	*	HASKELL	68 33 16	22 99 50	2	9.00	-21.80	100.00	4
7	*	HASKELL	69 33 11	38 99 43	2	9.00	-21.80	100.00	4
8	*	STONEWALL	65 33 16	22 100 8	2	9.00	-3.40	100.00	2
8	*	STONEWALL	66 33 4	32 100 8	2	9.00	-3.40	100.00	2
8	*	STONEWALL	67 33 4	32 100 23	2	9.00	-3.40	100.00	2
8	*	STONEWALL	68 33 16	22 100 23	2	9.00	-3.40	100.00	2
8	*	STONEWALL	69 33 9	16 100 15	2	9.00	-3.40	100.00	2
9	*	KENT	65 33 16	22 100 38	2	9.00	-16.80	100.00	3
9	*	KENT	66 33 4	32 100 38	2	9.00	-16.80	100.00	3
9	*	KENT	67 33 4	32 100 55	2	9.00	-16.80	100.00	3
9	*	KENT	68 33 16	22 100 55	2	9.00	-16.80	100.00	3
9	*	KENT	69 33 9	16 100 48	2	9.00	-16.80	100.00	3
10	*	STEPHENS	65 32 50	20 98 42	2	9.00	-3.40	100.00	2
10	*	STEPHENS	66 32 38	30 98 42	2	9.00	-3.40	100.00	2
10	*	STEPHENS	67 32 38	30 98 57	2	9.00	-3.40	100.00	2
10	*	STEPHENS	68 32 50	20 98 57	2	9.00	-3.40	100.00	2
10	*	STEPHENS	69 32 43	14 98 52	2	9.00	-3.40	100.00	2

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
11 * SHACKELFORD	65 32 50	20 99 12	2	9.00	-3.40	100.00	2
11 * SHACKELFORD	66 32 38	30 99 12	2	9.00	-3.40	100.00	2
11 * SHACKELFORD	67 32 38	30 99 27	2	9.00	-3.40	100.00	2
11 * SHACKELFORD	68 32 50	20 99 28	2	9.00	-3.40	100.00	2
11 * SHACKELFORD	69 32 45	36 99 20	2	9.00	-3.40	100.00	2
12 * JONES	65 32 50	20 99 45	2	9.00	-3.40	100.00	2
12 * JONES	66 32 38	30 99 45	2	9.00	-3.40	100.00	2
12 * JONES	67 32 38	30 100 0	2	9.00	-3.40	100.00	2
12 * JONES	68 32 50	20 100 0	2	9.00	-3.40	100.00	2
12 * JONES	69 32 45	36 99 53	2	9.00	-3.40	100.00	2
13 * FISHER	65 32 50	20 100 15	2	9.00	-16.80	100.00	3
13 * FISHER	66 32 38	30 100 15	2	9.00	-16.80	100.00	3
13 * FISHER	67 32 38	30 100 30	2	9.00	-16.80	100.00	3
13 * FISHER	68 32 50	20 100 30	2	9.00	-16.80	100.00	3
13 * FISHER	69 32 44	25 100 23	2	9.00	-16.80	100.00	3
14 * EASTLAND	65 32 22	59 98 36	2	10.00	-1.80	100.00	2
14 * EASTLAND	66 32 22	59 98 50	2	10.00	-1.80	100.00	2
14 * EASTLAND	67 32 22	59 98 59	2	10.00	-1.80	100.00	2
14 * EASTLAND	68 32 12	42 98 59	2	10.00	-1.80	100.00	2
14 * EASTLAND	69 32 18	7 98 47	2	10.00	-1.80	100.00	2
15 * CALLAHAN	65 32 24	4 99 15	2	9.00	-21.80	100.00	4
15 * CALLAHAN	66 32 13	15 99 15	2	9.00	-21.80	100.00	4
15 * CALLAHAN	67 32 13	15 99 29	2	9.00	-21.80	100.00	4
15 * CALLAHAN	68 32 24	4 99 29	2	9.00	-21.80	100.00	4
15 * CALLAHAN	69 32 18	39 99 23	2	9.00	-21.80	100.00	4
16 * TAYLOR	65 32 24	4 99 46	5	9.00	-7.80	500.00	1
16 * TAYLOR	66 32 12	42 99 46	5	9.00	-7.80	500.00	1
16 * TAYLOR	67 32 12	42 100 0	5	9.00	-7.80	500.00	1
16 * TAYLOR	68 32 23	32 100 0	5	9.00	-7.80	500.00	1
16 * TAYLOR	69 32 18	7 99 54	5	9.00	-7.80	500.00	1
17 * NOLAN	65 32 23	32 100 17	2	9.00	-21.80	100.00	4
17 * NOLAN	66 32 11	5 100 17	2	9.00	-21.80	100.00	4
17 * NOLAN	67 32 11	5 100 31	2	9.00	-21.80	100.00	4
17 * NOLAN	68 32 24	37 100 31	2	9.00	-21.80	100.00	4
17 * NOLAN	69 32 16	30 100 26	2	9.00	-21.80	100.00	4
18 * MITCHELL	65 32 24	37 100 48	2	9.00	-21.80	100.00	4
18 * MITCHELL	66 32 11	38 100 48	2	9.00	-21.80	100.00	4
18 * MITCHELL	67 32 12	10 101 2	2	9.00	-21.80	100.00	4
18 * MITCHELL	68 32 24	20 101 2	2	9.00	-21.80	100.00	4
18 * MITCHELL	69 32 16	13 100 57	2	9.00	-21.80	100.00	4

Site		Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
19	*	RUNNELS	65 31 57	34 99 52	2	10.00	-20.20	100.00	4
19	*	RUNNELS	66 31 42	25 99 52	2	10.00	-20.20	100.00	4
19	*	RUNNELS	67 31 42	25 100 6	2	10.00	-20.20	100.00	4
19	*	RUNNELS	68 31 57	1 100 6	2	10.00	-20.20	100.00	4
19	*	RUNNELS	69 31 51	4 99 57	2	10.00	-20.20	100.00	4
20	*	GLASSCOCK	65 31 58	6 101 24	2	9.00	-21.80	100.00	4
20	*	GLASSCOCK	66 31 45	39 101 24	2	9.00	-21.80	100.00	4
20	*	GLASSCOCK	67 31 45	39 101 38	2	9.00	-21.80	100.00	4
20	*	GLASSCOCK	68 31 59	11 101 38	2	9.00	-21.80	100.00	4
20	*	GLASSCOCK	69 31 51	4 101 32	2	9.00	-21.80	100.00	4
21	*	MASON	65 30 48	21 99 5	2	9.00	-7.80	500.00	1
21	*	MASON	66 30 36	10 99 5	2	9.00	-7.80	500.00	1
21	*	MASON	67 30 36	10 99 21	2	9.00	-7.80	500.00	1
21	*	MASON	68 30 49	34 99 21	2	9.00	-7.80	500.00	1
21	*	MASON	69 30 43	28 99 12	2	9.00	-7.80	500.00	1
22	*	SCURRY	65 32 50	2 100 48	2	9.00	-21.80	100.00	4
22	*	SCURRY	66 32 38	8 100 48	2	9.00	-21.80	100.00	4
22	*	SCURRY	67 32 38	8 101 2	2	9.00	-21.80	100.00	4
22	*	SCURRY	68 32 51	39 101 2	2	9.00	-21.80	100.00	4
22	*	SCURRY	69 32 46	15 100 56	2	9.00	-21.80	100.00	4
23	*	BORDEN	65 32 50	51 101 18	2	9.00	-16.80	100.00	3
23	*	BORDEN	66 32 38	24 101 18	2	9.00	-16.80	100.00	3
23	*	BORDEN	67 32 38	24 101 32	2	9.00	-16.80	100.00	3
23	*	BORDEN	68 32 50	18 101 32	2	9.00	-16.80	100.00	3
23	*	BORDEN	69 32 42	11 101 24	2	9.00	-16.80	100.00	3
24	*	DAWSON	65 32 50	18 101 49	2	9.00	-16.80	100.00	3
24	*	DAWSON	66 32 37	52 101 49	2	9.00	-16.80	100.00	3
24	*	DAWSON	67 32 37	52 102 3	2	9.00	-16.80	100.00	3
24	*	DAWSON	68 32 51	23 102 4	2	9.00	-16.80	100.00	3
24	*	DAWSON	69 32 45	59 101 58	2	9.00	-16.80	100.00	3
25	*	HOWARD	65 32 24	20 101 19	2	9.00	-3.40	100.00	2
25	*	HOWARD	66 32 10	49 101 19	2	9.00	-3.40	100.00	2
25	*	HOWARD	67 32 11	21 101 33	2	9.00	-3.40	100.00	2
25	*	HOWARD	68 32 24	53 101 33	2	9.00	-3.40	100.00	2
25	*	HOWARD	69 32 19	28 101 28	2	9.00	-3.40	100.00	2
26	*	MARTIN	65 32 24	53 101 49	2	9.00	-16.80	100.00	3
26	*	MARTIN	66 32 11	21 101 49	2	9.00	-16.80	100.00	3
26	*	MARTIN	67 32 11	54 102 4	2	9.00	-16.80	100.00	3
26	*	MARTIN	68 32 25	25 102 4	2	9.00	-16.80	100.00	3
26	*	MARTIN	69 32 17	18 101 55	2	9.00	-16.80	100.00	3

Site		Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
27	*	MIDLAND	65 31 58	22 101 53	5	9.00	-3.40	100.00	2
27	*	MIDLAND	66 31 44	51 101 53	5	9.00	-3.40	100.00	2
27	*	MIDLAND	67 31 45	23 102 10	5	9.00	-3.40	100.00	2
27	*	MIDLAND	68 31 58	6 102 9	5	9.00	-3.40	100.00	2
27	*	MIDLAND	69 31 49	59 102 1	5	9.00	-3.40	100.00	2
28	*	ECTOR	65 31 58	38 102 24	5	9.00	-3.40	100.00	2
28	*	ECTOR	66 31 45	7 102 24	5	9.00	-3.40	100.00	2
28	*	ECTOR	67 31 45	39 102 41	5	9.00	-3.40	100.00	2
28	*	ECTOR	68 31 57	34 102 41	5	9.00	-3.40	100.00	2
28	*	ECTOR	69 31 52	9 102 32	5	9.00	-3.40	100.00	2
29	*	WINKLER	65 31 58	39 102 56	2	9.00	-21.80	100.00	4
29	*	WINKLER	66 31 45	7 102 56	2	9.00	-21.80	100.00	4
29	*	WINKLER	67 31 45	7 103 12	2	9.00	-21.80	100.00	4
29	*	WINKLER	68 31 52	41 103 12	2	9.00	-21.80	100.00	4
29	*	WINKLER	69 31 49	59 103 4	2	9.00	-21.80	100.00	4
30	*	CRANE	65 31 32	24 102 26	2	9.00	-16.80	100.00	3
30	*	CRANE	66 31 21	35 102 26	2	9.00	-16.80	100.00	3
30	*	CRANE	67 31 12	7 102 23	2	9.00	-16.80	100.00	3
30	*	CRANE	68 31 24	50 102 38	2	9.00	-16.80	100.00	3
30	*	CRANE	69 31 32	57 102 38	2	9.00	-16.80	100.00	3
31	*	WARD	65 31 33	13 102 53	2	9.00	-21.80	100.00	4
31	*	WARD	66 31 23	29 102 52	2	9.00	-21.80	100.00	4
31	*	WARD	67 31 32	57 103 22	2	9.00	-21.80	100.00	4
31	*	WARD	68 31 32	57 103 8	2	9.00	-21.80	100.00	4
31	*	WARD	69 31 27	32 103 8	2	9.00	-21.80	100.00	4
32	*	EL PASO	65 31 52	29 106 8	22	10.00	-1.80	100.00	2
32	*	EL PASO	66 31 29	10 106 7	22	10.00	-1.80	100.00	2
32	*	EL PASO	67 31 40	7 106 9	22	10.00	-1.80	100.00	2
32	*	EL PASO	68 31 53	6 106 29	22	10.00	-1.80	100.00	2
32	*	EL PASO	69 31 51	16 106 18	22	10.00	-1.80	100.00	2
33	*	BROWN	65 31 57	50 98 59	2	9.00	-3.40	100.00	2
33	*	BROWN	66 31 44	18 98 51	2	9.00	-3.40	100.00	2
33	*	BROWN	67 31 34	34 99 5	2	9.00	-3.40	100.00	2
33	*	BROWN	68 31 37	49 98 58	2	9.00	-3.40	100.00	2
33	*	BROWN	69 31 48	38 99 4	2	9.00	-3.40	100.00	2
33	*	BROWN	70 31 57	50 99 4	2	9.00	-3.40	100.00	2
34	*	COLEMAN	65 31 57	17 99 20	2	10.00	-1.80	100.00	2
34	*	COLEMAN	66 31 46	28 99 20	2	10.00	-1.80	100.00	2
34	*	COLEMAN	67 31 33	13 99 20	2	10.00	-1.80	100.00	2
34	*	COLEMAN	68 31 36	11 99 34	2	10.00	-1.80	100.00	2
34	*	COLEMAN	69 31 49	27 99 35	2	10.00	-1.80	100.00	2
34	*	COLEMAN	70 31 57	34 99 35	2	10.00	-1.80	100.00	2

Site		Name	Site Latitude			Site Longitude			Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
35	*	COKE	65	31	58	6	100	21	2	9.00	-21.80	100.00	4
35	*	COKE	66	31	49	10	100	21	2	9.00	-21.80	100.00	4
35	*	COKE	67	31	49	10	100	32	2	9.00	-21.80	100.00	4
35	*	COKE	68	31	49	10	100	41	2	9.00	-21.80	100.00	4
35	*	COKE	69	31	57	17	100	41	2	9.00	-21.80	100.00	4
35	*	COKE	70	31	57	17	100	32	2	9.00	-21.80	100.00	4
36	*	STERLING	65	31	57	17	100	56	2	9.00	-21.80	100.00	4
36	*	STERLING	66	31	46	28	100	56	2	9.00	-21.80	100.00	4
36	*	STERLING	67	31	41	4	100	59	2	9.00	-21.80	100.00	4
36	*	STERLING	68	31	41	4	101	8	2	9.00	-21.80	100.00	4
36	*	STERLING	69	31	57	17	101	8	2	9.00	-21.80	100.00	4
36	*	STERLING	70	31	49	10	101	8	2	9.00	-21.80	100.00	4
37	*	MCCULLOCH	65	31	20	46	99	13	2	10.00	-20.20	100.00	4
37	*	MCCULLOCH	66	31	9	57	99	13	2	10.00	-20.20	100.00	4
37	*	MCCULLOCH	67	31	4	0	99	13	2	10.00	-20.20	100.00	4
37	*	MCCULLOCH	68	31	4	0	99	27	2	10.00	-20.20	100.00	4
37	*	MCCULLOCH	69	31	12	7	99	27	2	10.00	-20.20	100.00	4
37	*	MCCULLOCH	70	31	21	19	99	28	2	10.00	-20.20	100.00	4
38	*	IRION	65	31	24	1	100	48	2	9.00	-21.80	100.00	4
38	*	IRION	66	31	13	12	100	48	2	9.00	-21.80	100.00	4
38	*	IRION	67	31	13	12	101	0	2	9.00	-21.80	100.00	4
38	*	IRION	68	31	13	12	101	8	2	9.00	-21.80	100.00	4
38	*	IRION	69	31	24	1	101	8	2	9.00	-21.80	100.00	4
38	*	IRION	70	31	24	1	101	0	2	9.00	-21.80	100.00	4
39	*	REAGAN	65	31	31	19	101	25	2	10.00	-15.20	100.00	3
39	*	REAGAN	66	31	12	23	101	25	2	10.00	-15.20	100.00	3
39	*	REAGAN	67	31	23	12	101	25	2	10.00	-15.20	100.00	3
39	*	REAGAN	68	31	31	52	101	38	2	10.00	-15.20	100.00	3
39	*	REAGAN	69	31	22	56	101	38	2	10.00	-15.20	100.00	3
39	*	REAGAN	70	31	12	23	101	38	2	10.00	-15.20	100.00	3
40	*	MENARD	65	30	59	36	99	43	2	8.00	-1.70	200.00	1
40	*	MENARD	66	30	49	52	99	35	2	8.00	-1.70	200.00	1
40	*	MENARD	67	30	49	15	99	47	2	8.00	-1.70	200.00	1
40	*	MENARD	68	30	49	15	100	0	2	8.00	-1.70	200.00	1
40	*	MENARD	69	30	59	18	100	0	2	8.00	-1.70	200.00	1
40	*	MENARD	70	30	59	18	99	50	2	8.00	-1.70	200.00	1
41	*	GAINES	65	32	48	41	102	21	2	10.00	-15.20	100.00	3
41	*	GAINES	66	32	39	45	102	21	2	10.00	-15.20	100.00	3
41	*	GAINES	67	32	39	45	102	38	2	10.00	-15.20	100.00	3
41	*	GAINES	68	32	39	45	102	56	2	10.00	-15.20	100.00	3
41	*	GAINES	69	32	49	13	102	56	2	10.00	-15.20	100.00	3
41	*	GAINES	70	32	49	13	102	38	2	10.00	-15.20	100.00	3

Site		Name	Site Latitude			Site Longitude			Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
42	*	ANDREWS	65	32	24	37	102	21	2	10.00	-15.20	100.00	3
42	*	ANDREWS	66	32	12	42	102	21	2	10.00	-15.20	100.00	3
42	*	ANDREWS	67	32	12	42	102	38	2	10.00	-15.20	100.00	3
42	*	ANDREWS	68	32	12	42	102	55	2	10.00	-15.20	100.00	3
42	*	ANDREWS	69	32	23	32	102	55	2	10.00	-15.20	100.00	3
42	*	ANDREWS	70	32	23	32	102	38	2	10.00	-15.20	100.00	3
43	*	UPTON	65	31	31	3	101	55	2	10.00	-15.20	100.00	3
43	*	UPTON	66	31	20	14	101	55	2	10.00	-15.20	100.00	3
43	*	UPTON	67	31	12	7	101	55	2	10.00	-15.20	100.00	3
43	*	UPTON	68	31	12	7	102	9	2	10.00	-15.20	100.00	3
43	*	UPTON	69	31	25	38	102	9	2	10.00	-15.20	100.00	3
43	*	UPTON	70	31	31	3	102	9	2	10.00	-15.20	100.00	3
44	*	LOVING	65	31	54	3	103	27	2	8.00	-18.60	100.00	3
44	*	LOVING	66	31	45	56	103	27	2	8.00	-18.60	100.00	3
44	*	LOVING	67	31	45	56	103	35	2	8.00	-18.60	100.00	3
44	*	LOVING	68	31	54	3	103	48	2	8.00	-18.60	100.00	3
44	*	LOVING	69	31	50	48	103	40	2	8.00	-18.60	100.00	3
44	*	LOVING	70	31	54	3	103	38	2	8.00	-18.60	100.00	3
45	*	COMANCHE	65	32	7	18	98	34	2	8.00	-5.20	100.00	2
45	*	COMANCHE	66	31	56	29	98	29	2	8.00	-5.20	100.00	2
45	*	COMANCHE	67	31	51	37	98	17	2	8.00	-5.20	100.00	2
45	*	COMANCHE	68	31	48	54	98	29	2	8.00	-5.20	100.00	2
45	*	COMANCHE	69	31	49	43	98	37	2	8.00	-5.20	100.00	2
45	*	COMANCHE	70	32	3	14	98	45	2	8.00	-5.20	100.00	2
45	*	COMANCHE	71	31	57	50	98	42	2	8.00	-5.20	100.00	2
46	*	SUTTON	65	30	35	34	100	15	2	9.00	-16.80	100.00	3
46	*	SUTTON	66	30	24	18	100	15	2	9.00	-16.80	100.00	3
46	*	SUTTON	67	30	24	18	100	28	2	9.00	-16.80	100.00	3
46	*	SUTTON	68	30	24	18	100	41	2	9.00	-16.80	100.00	3
46	*	SUTTON	69	30	24	18	100	50	2	9.00	-16.80	100.00	3
46	*	SUTTON	70	30	35	15	100	50	2	9.00	-16.80	100.00	3
46	*	SUTTON	71	30	35	15	100	40	2	9.00	-16.80	100.00	3
46	*	SUTTON	72	30	35	15	100	28	2	9.00	-16.80	100.00	3
47	*	JEFF DAVIS	65	30	55	4	104	6	2	12.00	-12.40	100.00	3
47	*	JEFF DAVIS	66	30	33	26	103	52	2	12.00	-12.40	100.00	3
47	*	JEFF DAVIS	67	30	39	23	103	39	2	12.00	-12.40	100.00	3
47	*	JEFF DAVIS	68	30	47	46	103	53	2	12.00	-12.40	100.00	3
47	*	JEFF DAVIS	69	30	39	39	104	42	2	12.00	-12.40	100.00	3
47	*	JEFF DAVIS	70	30	47	46	104	24	2	12.00	-12.40	100.00	3
47	*	JEFF DAVIS	71	30	39	39	104	24	2	12.00	-12.40	100.00	3
47	*	JEFF DAVIS	72	30	36	57	104	8	2	12.00	-12.40	100.00	3
48	*	KIMBLE	65	30	36	29	99	35	2	8.00	-23.60	100.00	4
48	*	KIMBLE	66	30	24	18	99	24	2	8.00	-23.60	100.00	4
48	*	KIMBLE	67	30	24	18	99	33	2	8.00	-23.60	100.00	4
48	*	KIMBLE	68	30	24	18	99	46	2	8.00	-23.60	100.00	4
48	*	KIMBLE	69	30	24	18	99	59	2	8.00	-23.60	100.00	4
48	*	KIMBLE	70	30	36	29	100	0	2	8.00	-23.60	100.00	4
48	*	KIMBLE	71	30	36	29	99	49	2	8.00	-23.60	100.00	4

Site		Name	Site Latitude			Site Longitude			Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
48	*	KIMBLE	72	30	28	52	99	42	2	8.00	-23.60	100.00	4
48	*	KIMBLE	73	30	28	52	99	55	2	8.00	-23.60	100.00	4
49	*	PRESIDIO	65	30	14	10	104	2	2	15.00	-8.20	100.00	3
49	*	PRESIDIO	66	29	57	54	104	2	2	15.00	-8.20	100.00	3
49	*	PRESIDIO	67	29	25	46	104	0	2	15.00	-8.20	100.00	3
49	*	PRESIDIO	68	29	42	2	104	2	2	15.00	-8.20	100.00	3
49	*	PRESIDIO	69	29	42	2	104	17	2	15.00	-8.20	100.00	3
49	*	PRESIDIO	70	30	23	43	104	43	2	15.00	-8.20	100.00	3
49	*	PRESIDIO	71	30	18	38	104	23	2	15.00	-8.20	100.00	3
49	*	PRESIDIO	72	30	5	13	104	28	2	15.00	-8.20	100.00	3
49	*	PRESIDIO	73	29	53	50	104	25	2	15.00	-8.20	100.00	3
50	*	HUDSPETH	65	31	48	26	105	8	2	15.00	-8.20	100.00	3
50	*	HUDSPETH	66	30	47	34	105	6	2	15.00	-8.20	100.00	3
50	*	HUDSPETH	67	31	9	53	105	7	2	15.00	-8.20	100.00	3
50	*	HUDSPETH	68	31	30	10	105	7	2	15.00	-8.20	100.00	3
50	*	HUDSPETH	69	31	48	38	105	46	2	15.00	-8.20	100.00	3
50	*	HUDSPETH	70	31	48	38	105	27	2	15.00	-8.20	100.00	3
50	*	HUDSPETH	71	31	28	57	105	45	2	15.00	-8.20	100.00	3
50	*	HUDSPETH	72	31	15	58	105	33	2	15.00	-8.20	100.00	3
50	*	HUDSPETH	73	31	3	48	105	20	2	15.00	-8.20	100.00	3
50	*	HUDSPETH	74	31	30	10	105	24	2	15.00	-8.20	100.00	3
51	*	REEVES	65	31	17	32	103	13	2	10.00	-15.20	100.00	3
51	*	REEVES	66	31	18	53	103	29	2	10.00	-15.20	100.00	3
51	*	REEVES	67	31	32	24	103	38	2	10.00	-15.20	100.00	3
51	*	REEVES	68	31	39	42	103	49	2	10.00	-15.20	100.00	3
51	*	REEVES	69	31	51	4	103	57	2	10.00	-15.20	100.00	3
51	*	REEVES	70	31	37	0	103	54	2	10.00	-15.20	100.00	3
51	*	REEVES	71	31	23	29	103	54	2	10.00	-15.20	100.00	3
51	*	REEVES	72	31	9	57	103	57	2	10.00	-15.20	100.00	3
51	*	REEVES	73	31	1	50	103	47	2	10.00	-15.20	100.00	3
51	*	REEVES	74	30	53	43	103	35	2	10.00	-15.20	100.00	3
51	*	REEVES	75	31	5	54	103	25	2	10.00	-15.20	100.00	3
51	*	REEVES	76	31	9	25	103	39	2	10.00	-15.20	100.00	3
51	*	REEVES	77	31	19	41	103	45	2	10.00	-15.20	100.00	3
52	*	CULBERSON	65	31	51	4	104	12	2	12.00	-12.40	100.00	3
52	*	CULBERSON	66	31	37	33	104	14	2	12.00	-12.40	100.00	3
52	*	CULBERSON	67	31	11	18	104	16	2	12.00	-12.40	100.00	3
52	*	CULBERSON	68	31	24	50	104	16	2	12.00	-12.40	100.00	3
52	*	CULBERSON	69	30	51	17	104	48	2	12.00	-12.40	100.00	3
52	*	CULBERSON	70	31	2	6	104	32	2	12.00	-12.40	100.00	3
52	*	CULBERSON	71	31	7	31	104	44	2	12.00	-12.40	100.00	3
52	*	CULBERSON	72	31	23	45	104	44	2	12.00	-12.40	100.00	3
52	*	CULBERSON	73	31	37	16	104	44	2	12.00	-12.40	100.00	3
52	*	CULBERSON	74	31	50	48	104	44	2	12.00	-12.40	100.00	3
52	*	CULBERSON	75	31	50	48	104	29	2	12.00	-12.40	100.00	3
52	*	CULBERSON	76	31	33	29	104	29	2	12.00	-12.40	100.00	3
52	*	CULBERSON	77	31	15	22	104	29	2	12.00	-12.40	100.00	3
53	*	BREWSTER	65	30	24	39	103	26	2	15.00	-8.20	100.00	3
53	*	BREWSTER	66	29	9	39	103	14	2	15.00	-8.20	100.00	3
53	*	BREWSTER	67	29	20	19	103	34	2	15.00	-8.20	100.00	3
53	*	BREWSTER	68	29	21	32	103	3	2	15.00	-8.20	100.00	3
53	*	BREWSTER	69	29	39	50	102	57	2	15.00	-8.20	100.00	3
53	*	BREWSTER	70	29	52	2	102	35	2	15.00	-8.20	100.00	3
53	*	BREWSTER	71	30	1	11	102	54	2	15.00	-8.20	100.00	3
53	*	BREWSTER	72	30	13	22	103	10	2	15.00	-8.20	100.00	3
53	*	BREWSTER	73	30	19	28	103	36	2	15.00	-8.20	100.00	3
53	*	BREWSTER	74	30	0	52	103	35	2	15.00	-8.20	100.00	3
53	*	BREWSTER	75	29	39	32	103	35	2	15.00	-8.20	100.00	3

Site		Name	Site Latitude			Site Longitude			Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
53	*	BREWSTER	76	29	37	24	103	17	2	15.00	-8.20	100.00	3
53	*	BREWSTER	77	29	58	44	103	14	2	15.00	-8.20	100.00	3
54	*	TERRELL	65	30	21	44	101	50	2	9.00	-16.80	100.00	3
54	*	TERRELL	66	30	32	23	101	47	2	9.00	-16.80	100.00	3
54	*	TERRELL	67	30	32	23	102	1	2	9.00	-16.80	100.00	3
54	*	TERRELL	68	30	28	26	102	13	2	9.00	-16.80	100.00	3
54	*	TERRELL	69	30	16	15	102	13	2	9.00	-16.80	100.00	3
54	*	TERRELL	70	30	10	10	102	26	2	9.00	-16.80	100.00	3
54	*	TERRELL	71	30	3	10	102	23	2	9.00	-16.80	100.00	3
54	*	TERRELL	72	29	57	5	102	11	2	9.00	-16.80	100.00	3
54	*	TERRELL	73	29	54	2	102	1	2	9.00	-16.80	100.00	3
54	*	TERRELL	74	29	54	2	101	51	2	9.00	-16.80	100.00	3
54	*	TERRELL	75	30	6	13	101	53	2	9.00	-16.80	100.00	3
54	*	TERRELL	76	30	14	7	101	54	2	9.00	-16.80	100.00	3
54	*	TERRELL	77	30	21	7	102	2	2	9.00	-16.80	100.00	3
54	*	TERRELL	78	30	6	49	102	8	2	9.00	-16.80	100.00	3
55	*	PECOS	65	30	49	3	101	59	2	12.00	-12.40	100.00	3
55	*	PECOS	66	30	52	24	102	16	2	12.00	-12.40	100.00	3
55	*	PECOS	67	31	0	57	102	34	2	12.00	-12.40	100.00	3
55	*	PECOS	68	31	8	34	102	39	2	12.00	-12.40	100.00	3
55	*	PECOS	69	31	12	13	103	0	2	12.00	-12.40	100.00	3
55	*	PECOS	70	31	0	2	103	10	2	12.00	-12.40	100.00	3
55	*	PECOS	71	30	47	50	103	22	2	12.00	-12.40	100.00	3
55	*	PECOS	72	30	39	18	103	8	2	12.00	-12.40	100.00	3
55	*	PECOS	73	30	17	2	102	38	2	12.00	-12.40	100.00	3
55	*	PECOS	74	30	27	42	102	29	2	12.00	-12.40	100.00	3
55	*	PECOS	75	30	28	37	102	54	2	12.00	-12.40	100.00	3
55	*	PECOS	76	30	45	5	102	16	2	12.00	-12.40	100.00	3
55	*	PECOS	77	30	55	27	102	51	2	12.00	-12.40	100.00	3
55	*	PECOS	78	30	43	15	102	55	2	12.00	-12.40	100.00	3
55	*	PECOS	79	30	42	2	102	38	2	12.00	-12.40	100.00	3
56	*	CROCKETT	65	30	57	20	101	5	2	9.00	-21.80	100.00	4
56	*	CROCKETT	66	30	45	10	101	5	2	9.00	-21.80	100.00	4
56	*	CROCKETT	67	30	32	60	101	5	2	9.00	-21.80	100.00	4
56	*	CROCKETT	68	30	23	52	101	5	2	9.00	-21.80	100.00	4
56	*	CROCKETT	69	30	23	52	101	14	2	9.00	-21.80	100.00	4
56	*	CROCKETT	70	30	23	52	101	24	2	9.00	-21.80	100.00	4
56	*	CROCKETT	71	30	23	52	101	37	2	9.00	-21.80	100.00	4
56	*	CROCKETT	72	30	36	2	101	30	2	9.00	-21.80	100.00	4
56	*	CROCKETT	73	30	45	10	101	40	2	9.00	-21.80	100.00	4
56	*	CROCKETT	74	30	54	18	101	43	2	9.00	-21.80	100.00	4
56	*	CROCKETT	75	31	3	25	102	8	2	9.00	-21.80	100.00	4
56	*	CROCKETT	76	30	59	46	101	51	2	9.00	-21.80	100.00	4
56	*	CROCKETT	77	30	56	44	101	39	2	9.00	-21.80	100.00	4
56	*	CROCKETT	78	30	56	44	101	26	2	9.00	-21.80	100.00	4
56	*	CROCKETT	79	30	56	44	101	13	2	9.00	-21.80	100.00	4
56	*	CROCKETT	80	30	46	5	101	26	2	9.00	-21.80	100.00	4
56	*	CROCKETT	81	30	43	2	101	15	2	9.00	-21.80	100.00	4
56	*	CROCKETT	82	30	33	54	101	18	2	9.00	-21.80	100.00	4
57	*	TOM GREEN	65	31	37	0	100	18	5	6.00	-5.40	200.00	1

* These sites have been provided artificial antenna heights and ERP's.

5.5.1 REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER)

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* F.C.C. Channel Assignments *
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Channel Number	601	Mobile Frequency	821.0125 Mz	Base Frequency	866.0125 Mz	Mutual aid
Channel Number	602	Mobile Frequency	821.0375 Mz	Base Frequency	866.0375 Mz	Reserved for TXSP
Channel Number	603	Mobile Frequency	821.0500 Mz	Base Frequency	866.0500 Mz	Reserved for GUARD
Channel Number	604	Mobile Frequency	821.0625 Mz	Base Frequency	866.0625 Mz	Reserved for TXSP
Channel Number	605	Mobile Frequency	821.0750 Mz	Base Frequency	866.0750 Mz	Reserved for GUARD
Channel Number	606	Mobile Frequency	821.0875 Mz	Base Frequency	866.0875 Mz	MIDLAND INTL AIRPORT
Channel Number	606	Mobile Frequency	821.0875 Mz	Base Frequency	866.0875 Mz	SCHLEICHER
Channel Number	606	Mobile Frequency	821.0875 Mz	Base Frequency	866.0875 Mz	KNOX
Channel Number	606	Mobile Frequency	821.0875 Mz	Base Frequency	866.0875 Mz	STEPHENS
Channel Number	606	Mobile Frequency	821.0875 Mz	Base Frequency	866.0875 Mz	MITCHELL
Channel Number	606	Mobile Frequency	821.0875 Mz	Base Frequency	866.0875 Mz	EL PASO COUNTY
Channel Number	606	Mobile Frequency	821.0875 Mz	Base Frequency	866.0875 Mz	JEFF DAVIS
Channel Number	607	Mobile Frequency	821.1000 Mz	Base Frequency	866.1000 Mz	KENT
Channel Number	607	Mobile Frequency	821.1000 Mz	Base Frequency	866.1000 Mz	TAYLOR
Channel Number	607	Mobile Frequency	821.1000 Mz	Base Frequency	866.1000 Mz	MASON
Channel Number	607	Mobile Frequency	821.1000 Mz	Base Frequency	866.1000 Mz	DAWSON
Channel Number	607	Mobile Frequency	821.1000 Mz	Base Frequency	866.1000 Mz	WINKLER
Channel Number	607	Mobile Frequency	821.1000 Mz	Base Frequency	866.1000 Mz	COMANCHE
Channel Number	607	Mobile Frequency	821.1000 Mz	Base Frequency	866.1000 Mz	TERRELL

5.5.1 **REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER)** (continued)

Channel Number	608	Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	CONCHO
Channel Number	608	Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	THROCKMORTON
Channel Number	608	Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	GLASSCOCK
Channel Number	608	Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	EL PASO COUNTY
Channel Number	608	Mobile Frequency 821.1125 Mz	Base Frequency 866.1125 Mz	PRESIDIO
Channel Number	609	Mobile Frequency 821.1250 Mz	Base Frequency 866.1250 Mz	NOLAN
Channel Number	609	Mobile Frequency 821.1250 Mz	Base Frequency 866.1250 Mz	CRANE
Channel Number	609	Mobile Frequency 821.1250 Mz	Base Frequency 866.1250 Mz	SUTTON
Channel Number	610	Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	HASKELL
Channel Number	610	Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	EASTLAND
Channel Number	610	Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	MARTIN
Channel Number	610	Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	EL PASO COUNTY
Channel Number	610	Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	MCCULLOCH
Channel Number	610	Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	IRION
Channel Number	610	Mobile Frequency 821.1375 Mz	Base Frequency 866.1375 Mz	CULBERSON
Channel Number	611	Mobile Frequency 821.1500 Mz	Base Frequency 866.1500 Mz	RUNNELS
Channel Number	611	Mobile Frequency 821.1500 Mz	Base Frequency 866.1500 Mz	SCURRY
Channel Number	611	Mobile Frequency 821.1500 Mz	Base Frequency 866.1500 Mz	WARD
Channel Number	612	Mobile Frequency 821.1625 Mz	Base Frequency 866.1625 Mz	STONEWALL
Channel Number	612	Mobile Frequency 821.1625 Mz	Base Frequency 866.1625 Mz	MIDLAND
Channel Number	612	Mobile Frequency 821.1625 Mz	Base Frequency 866.1625 Mz	BROWN
Channel Number	613	Mobile Frequency 821.1750 Mz	Base Frequency 866.1750 Mz	SHACKELFORD
Channel Number	613	Mobile Frequency 821.1750 Mz	Base Frequency 866.1750 Mz	BORDEN
Channel Number	613	Mobile Frequency 821.1750 Mz	Base Frequency 866.1750 Mz	COKE
Channel Number	613	Mobile Frequency 821.1750 Mz	Base Frequency 866.1750 Mz	MENARD
Channel Number	613	Mobile Frequency 821.1750 Mz	Base Frequency 866.1750 Mz	LOVING
Channel Number	613	Mobile Frequency 821.1750 Mz	Base Frequency 866.1750 Mz	CROCKETT

5.5.1 REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER) (continued)

Channel Number 614	Mobile Frequency 821.1875 Mz	Base Frequency 866.1875 Mz	ECTOR
Channel Number 614	Mobile Frequency 821.1875 Mz	Base Frequency 866.1875 Mz	COLEMAN
Channel Number 615	Mobile Frequency 821.2000 Mz	Base Frequency 866.2000 Mz	JONES
Channel Number 615	Mobile Frequency 821.2000 Mz	Base Frequency 866.2000 Mz	HOWARD
Channel Number 615	Mobile Frequency 821.2000 Mz	Base Frequency 866.2000 Mz	KIMBLE
Channel Number 615	Mobile Frequency 821.2000 Mz	Base Frequency 866.2000 Mz	TOM GREEN
Channel Number 616	Mobile Frequency 821.2125 Mz	Base Frequency 866.2125 Mz	REAGAN
Channel Number 616	Mobile Frequency 821.2125 Mz	Base Frequency 866.2125 Mz	GAINES
Channel Number 617	Mobile Frequency 821.2250 Mz	Base Frequency 866.2250 Mz	FISHER
Channel Number 618	Mobile Frequency 821.2375 Mz	Base Frequency 866.2375 Mz	CALLAHAN
Channel Number 618	Mobile Frequency 821.2375 Mz	Base Frequency 866.2375 Mz	STERLING
Channel Number 618	Mobile Frequency 821.2375 Mz	Base Frequency 866.2375 Mz	ANDREWS
Channel Number 619	Mobile Frequency 821.2500 Mz	Base Frequency 866.2500 Mz	UPTON
Channel Number 620	Mobile Frequency 821.2625 Mz	Base Frequency 866.2625 Mz	Unassigned
Channel Number 621	Mobile Frequency 821.2750 Mz	Base Frequency 866.2750 Mz	Unassigned
Channel Number 622	Mobile Frequency 821.2875 Mz	Base Frequency 866.2875 Mz	Unassigned
Channel Number 623	Mobile Frequency 821.3000 Mz	Base Frequency 866.3000 Mz	Unassigned
Channel Number 624	Mobile Frequency 821.3125 Mz	Base Frequency 866.3125 Mz	Unassigned

REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER) (continued)

ıannel Number 625	Mobile Frequency 821.3250 Mz	Base Frequency 866.3250 Mz	Unassigned
ıannel Number 626	Mobile Frequency 821.3375 Mz	Base Frequency 866.3375 Mz	MIDLAND INTL AIRPORT
ıannel Number 627	Mobile Frequency 821.3500 Mz	Base Frequency 866.3500 Mz	TAYLOR
ıannel Number 628	Mobile Frequency 821.3625 Mz	Base Frequency 866.3625 Mz	Unassigned
ıannel Number 629	Mobile Frequency 821.3750 Mz	Base Frequency 866.3750 Mz	Unassigned
ıannel Number 630	Mobile Frequency 821.3875 Mz	Base Frequency 866.3875 Mz	EL PASO INTL AIRPORT
ıannel Number 630	Mobile Frequency 821.3875 Mz	Base Frequency 866.3875 Mz	REEVES
ıannel Number 631	Mobile Frequency 821.4000 Mz	Base Frequency 866.4000 Mz	Unassigned
ıannel Number 632	Mobile Frequency 821.4125 Mz	Base Frequency 866.4125 Mz	MIDLAND
ıannel Number 632	Mobile Frequency 821.4125 Mz	Base Frequency 866.4125 Mz	EL PASO COUNTY
ıannel Number 632	Mobile Frequency 821.4125 Mz	Base Frequency 866.4125 Mz	BREWSTER
ıannel Number 633	Mobile Frequency 821.4250 Mz	Base Frequency 866.4250 Mz	Unassigned
ıannel Number 634	Mobile Frequency 821.4375 Mz	Base Frequency 866.4375 Mz	ECTOR
ıannel Number 634	Mobile Frequency 821.4375 Mz	Base Frequency 866.4375 Mz	EL PASO COUNTY
ıannel Number 635	Mobile Frequency 821.4500 Mz	Base Frequency 866.4500 Mz	Reserved for GUARD

REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER) (continued)

hannel Number	636	Mobile Frequency 821.4625 Mz	Base Frequency 866.4625 Mz	Reserved for TX SP
hannel Number	637	Mobile Frequency 821.4750 Mz	Base Frequency 866.4750 Mz	Reserved for GUARD
hannel Number	638	Mobile Frequency 821.4875 Mz	Base Frequency 866.4875 Mz	Reserved for TX SP
hannel Number	639	Mobile Frequency 821.5125 Mz	Base Frequency 866.5125 Mz	Mutual aid
hannel Number	640	Mobile Frequency 821.5375 Mz	Base Frequency 866.5375 Mz	Reserved for TX SP
hannel Number	641	Mobile Frequency 821.5500 Mz	Base Frequency 866.5500 Mz	Reserved for GUARD
hannel Number	642	Mobile Frequency 821.5625 Mz	Base Frequency 866.5625 Mz	Reserved for TX SP
hannel Number	643	Mobile Frequency 821.5750 Mz	Base Frequency 866.5750 Mz	Reserved for GUARD
hannel Number	644	Mobile Frequency 821.5875 Mz	Base Frequency 866.5875 Mz	EL PASO COUNTY
hannel Number	644	Mobile Frequency 821.5875 Mz	Base Frequency 866.5875 Mz	PECOS
hannel Number	644	Mobile Frequency 821.5875 Mz	Base Frequency 866.5875 Mz	TOM GREEN
hannel Number	645	Mobile Frequency 821.6000 Mz	Base Frequency 866.6000 Mz	Unassigned
hannel Number	646	Mobile Frequency 821.6125 Mz	Base Frequency 866.6125 Mz	EL PASO COUNTY
hannel Number	647	Mobile Frequency 821.6250 Mz	Base Frequency 866.6250 Mz	TAYLOR
hannel Number	648	Mobile Frequency 821.6375 Mz	Base Frequency 866.6375 Mz	EL PASO COUNTY
hannel Number	649	Mobile Frequency 821.6500 Mz	Base Frequency 866.6500 Mz	Unassigned
hannel Number	650	Mobile Frequency 821.6625 Mz	Base Frequency 866.6625 Mz	Unassigned
hannel Number	651	Mobile Frequency 821.6750 Mz	Base Frequency 866.6750 Mz	Unassigned

5.5.1 REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER) (continued)

Channel Number	652	Mobile Frequency 821.6875 Mz	Base Frequency 866.6875 Mz	Unassigned
Channel Number	653	Mobile Frequency 821.7000 Mz	Base Frequency 866.7000 Mz	Unassigned
Channel Number	654	Mobile Frequency 821.7125 Mz	Base Frequency 866.7125 Mz	ECTOR
Channel Number	655	Mobile Frequency 821.7250 Mz	Base Frequency 866.7250 Mz	Unassigned
Channel Number	656	Mobile Frequency 821.7375 Mz	Base Frequency 866.7375 Mz	Unassigned
Channel Number	657	Mobile Frequency 821.7500 Mz	Base Frequency 866.7500 Mz	Unassigned
Channel Number	658	Mobile Frequency 821.7625 Mz	Base Frequency 866.7625 Mz	Unassigned
Channel Number	659	Mobile Frequency 821.7750 Mz	Base Frequency 866.7750 Mz	Unassigned
Channel Number	660	Mobile Frequency 821.7875 Mz	Base Frequency 866.7875 Mz	Unassigned
Channel Number	661	Mobile Frequency 821.8000 Mz	Base Frequency 866.8000 Mz	Unassigned
Channel Number	662	Mobile Frequency 821.8125 Mz	Base Frequency 866.8125 Mz	Unassigned
Channel Number	663	Mobile Frequency 821.8250 Mz	Base Frequency 866.8250 Mz	Unassigned
Channel Number	664	Mobile Frequency 821.8375 Mz	Base Frequency 866.8375 Mz	Unassigned
Channel Number	665	Mobile Frequency 821.8500 Mz	Base Frequency 866.8500 Mz	Unassigned
Channel Number	666	Mobile Frequency 821.8625 Mz	Base Frequency 866.8625 Mz	Unassigned
Channel Number	667	Mobile Frequency 821.8750 Mz	Base Frequency 866.8750 Mz	Unassigned
Channel Number	668	Mobile Frequency 821.8875 Mz	Base Frequency 866.8875 Mz	EL PASO INTL A IRPORT

5.5.1 **REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER)** (continued)

Channel Number	669	Mobile Frequency 821.9000 Mz	Base Frequency 866.9000 Mz	Unassigned
Channel Number	670	Mobile Frequency 821.9125 Mz	Base Frequency 866.9125 Mz	EL PASO COUNTY
Channel Number	671	Mobile Frequency 821.9250 Mz	Base Frequency 866.9250 Mz	Unassigned
Channel Number	672	Mobile Frequency 821.9375 Mz	Base Frequency 866.9375 Mz	EL PASO COUNTY
Channel Number	673	Mobile Frequency 821.9500 Mz	Base Frequency 866.9500 Mz	Reserved for GUARD
Channel Number	674	Mobile Frequency 821.9625 Mz	Base Frequency 866.9625 Mz	Reserved for TXSP
Channel Number	675	Mobile Frequency 821.9750 Mz	Base Frequency 866.9750 Mz	Reserved for GUARD
Channel Number	676	Mobile Frequency 821.9875 Mz	Base Frequency 866.9875 Mz	Reserved for TXSP
Channel Number	677	Mobile Frequency 822.0125 Mz	Base Frequency 867.0125 Mz	Mutual aid
Channel Number	678	Mobile Frequency 822.0375 Mz	Base Frequency 867.0375 Mz	Reserved for TXSP
Channel Number	679	Mobile Frequency 822.0500 Mz	Base Frequency 867.0500 Mz	Reserved for GUARD
Channel Number	680	Mobile Frequency 822.0625 Mz	Base Frequency 867.0625 Mz	Reserved for TXSP
Channel Number	681	Mobile Frequency 822.0750 Mz	Base Frequency 867.0750 Mz	Reserved for GUARD
Channel Number	682	Mobile Frequency 822.0875 Mz	Base Frequency 867.0875 Mz	HUDSPETH
Channel Number	683	Mobile Frequency 822.1000 Mz	Base Frequency 867.1000 Mz	Unassigned
Channel Number	684	Mobile Frequency 822.1125 Mz	Base Frequency 867.1125 Mz	Unassigned
Channel Number	685	Mobile Frequency 822.1250 Mz	Base Frequency 867.1250 Mz	Unassigned

5.5.1 **REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER)** (continued)

Channel Number	686 Mobile Frequency 822.1375 Mz	Base Frequency 867.1375 Mz	Unassigned
Channel Number	687 Mobile Frequency 822.1500 Mz	Base Frequency 867.1500 Mz	Unassigned
Channel Number	688 Mobile Frequency 822.1625 Mz	Base Frequency 867.1625 Mz	Unassigned
Channel Number	689 Mobile Frequency 822.1750 Mz	Base Frequency 867.1750 Mz	Unassigned
Channel Number	690 Mobile Frequency 822.1875 Mz	Base Frequency 867.1875 Mz	Unassigned
Channel Number	691 Mobile Frequency 822.2000 Mz	Base Frequency 867.2000 Mz	Unassigned
Channel Number	692 Mobile Frequency 822.2125 Mz	Base Frequency 867.2125 Mz	Unassigned
Channel Number	693 Mobile Frequency 822.2250 Mz	Base Frequency 867.2250 Mz	Unassigned
Channel Number	694 Mobile Frequency 822.2375 Mz	Base Frequency 867.2375 Mz	Unassigned
Channel Number	695 Mobile Frequency 822.2500 Mz	Base Frequency 867.2500 Mz	Unassigned
Channel Number	696 Mobile Frequency 822.2625 Mz	Base Frequency 867.2625 Mz	Unassigned
Channel Number	697 Mobile Frequency 822.2750 Mz	Base Frequency 867.2750 Mz	Unassigned
Channel Number	698 Mobile Frequency 822.2875 Mz	Base Frequency 867.2875 Mz	Unassigned
Channel Number	699 Mobile Frequency 822.3000 Mz	Base Frequency 867.3000 Mz	Unassigned
Channel Number	700 Mobile Frequency 822.3125 Mz	Base Frequency 867.3125 Mz	Unassigned
Channel Number	701 Mobile Frequency 822.3250 Mz	Base Frequency 867.3250 Mz	Unassigned
Channel Number	702 Mobile Frequency 822.3375 Mz	Base Frequency 867.3375 Mz	Unassigned

5.5.1 **REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER)** (continued)

Channel Number	703 Mobile Frequency 822.3500 Mz	Base Frequency 867.3500 Mz	Unassigned
Channel Number	704 Mobile Frequency 822.3625 Mz	Base Frequency 867.3625 Mz	Unassigned
Channel Number	705 Mobile Frequency 822.3750 Mz	Base Frequency 867.3750 Mz	Unassigned
Channel Number	706 Mobile Frequency 822.3875 Mz	Base Frequency 867.3875 Mz	EL PASO COUNTY
Channel Number	707 Mobile Frequency 822.4000 Mz	Base Frequency 867.4000 Mz	Unassigned
Channel Number	708 Mobile Frequency 822.4125 Mz	Base Frequency 867.4125 Mz	Unassigned
Channel Number	709 Mobile Frequency 822.4250 Mz	Base Frequency 867.4250 Mz	Unassigned
Channel Number	710 Mobile Frequency 822.4375 Mz	Base Frequency 867.4375 Mz	Unassigned
Channel Number	711 Mobile Frequency 822.4500 Mz	Base Frequency 867.4500 Mz	Reserved for GUARD
Channel Number	712 Mobile Frequency 822.4625 Mz	Base Frequency 867.4625 Mz	Reserved for TXSP
Channel Number	713 Mobile Frequency 822.4750 Mz	Base Frequency 867.4750 Mz	Reserved for GUARD
Channel Number	714 Mobile Frequency 822.4875 Mz	Base Frequency 867.4875 Mz	Reserved for TXSP
Channel Number	715 Mobile Frequency 822.5125 Mz	Base Frequency 867.5125 Mz	Mutual aid
Channel Number	716 Mobile Frequency 822.5375 Mz	Base Frequency 867.5375 Mz	Reserved for TXSP
Channel Number	717 Mobile Frequency 822.5500 Mz	Base Frequency 867.5500 Mz	Reserved for GUARD
Channel Number	718 Mobile Frequency 822.5625 Mz	Base Frequency 867.5625 Mz	Reserved for TXSP
Channel Number	719 Mobile Frequency 822.5750 Mz	Base Frequency 867.5750 Mz	Reserved for GUARD

5.5.1 REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER) (continued)

Channel Number	720	Mobile Frequency 822.5875 Mz	Base Frequency 867.5875 Mz	Unassigned
Channel Number	721	Mobile Frequency 822.6000 Mz	Base Frequency 867.6000 Mz	Unassigned
Channel Number	722	Mobile Frequency 822.6125 Mz	Base Frequency 867.6125 Mz	EL PASO COUNTY
Channel Number	723	Mobile Frequency 822.6250 Mz	Base Frequency 867.6250 Mz	Unassigned
Channel Number	724	Mobile Frequency 822.6375 Mz	Base Frequency 867.6375 Mz	EL PASO COUNTY
Channel Number	725	Mobile Frequency 822.6500 Mz	Base Frequency 867.6500 Mz	Unassigned
Channel Number	726	Mobile Frequency 822.6625 Mz	Base Frequency 867.6625 Mz	Unassigned
Channel Number	727	Mobile Frequency 822.6750 Mz	Base Frequency 867.6750 Mz	Unassigned
Channel Number	728	Mobile Frequency 822.6875 Mz	Base Frequency 867.6875 Mz	Unassigned
Channel Number	729	Mobile Frequency 822.7000 Mz	Base Frequency 867.7000 Mz	Unassigned
Channel Number	730	Mobile Frequency 822.7125 Mz	Base Frequency 867.7125 Mz	Unassigned
Channel Number	731	Mobile Frequency 822.7250 Mz	Base Frequency 867.7250 Mz	Unassigned
Channel Number	732	Mobile Frequency 822.7375 Mz	Base Frequency 867.7375 Mz	Unassigned
Channel Number	733	Mobile Frequency 822.7500 Mz	Base Frequency 867.7500 Mz	Unassigned
Channel Number	734	Mobile Frequency 822.7625 Mz	Base Frequency 867.7625 Mz	Unassigned
Channel Number	735	Mobile Frequency 822.7750 Mz	Base Frequency 867.7750 Mz	Unassigned
Channel Number	736	Mobile Frequency 822.7875 Mz	Base Frequency 867.7875 Mz	Unassigned

5.5.1 **REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER)** (continued)

Channel Number	737	Mobile Frequency 822.8000 Mz	Base Frequency 867.8000 Mz	Unassigned
Channel Number	738	Mobile Frequency 822.8125 Mz	Base Frequency 867.8125 Mz	Unassigned
Channel Number	739	Mobile Frequency 822.8250 Mz	Base Frequency 867.8250 Mz	Unassigned
Channel Number	740	Mobile Frequency 822.8375 Mz	Base Frequency 867.8375 Mz	Unassigned
Channel Number	741	Mobile Frequency 822.8500 Mz	Base Frequency 867.8500 Mz	Unassigned
Channel Number	742	Mobile Frequency 822.8625 Mz	Base Frequency 867.8625 Mz	Unassigned
Channel Number	743	Mobile Frequency 822.8750 Mz	Base Frequency 867.8750 Mz	Unassigned
Channel Number	744	Mobile Frequency 822.8875 Mz	Base Frequency 867.8875 Mz	Unassigned
Channel Number	745	Mobile Frequency 822.9000 Mz	Base Frequency 867.9000 Mz	Unassigned
Channel Number	746	Mobile Frequency 822.9125 Mz	Base Frequency 867.9125 Mz	EL PASO COUNTY
Channel Number	747	Mobile Frequency 822.9250 Mz	Base Frequency 867.9250 Mz	Unassigned
Channel Number	748	Mobile Frequency 822.9375 Mz	Base Frequency 867.9375 Mz	EL PASO COUNTY
Channel Number	749	Mobile Frequency 822.9500 Mz	Base Frequency 867.9500 Mz	Reserved for GUARD
Channel Number	750	Mobile Frequency 822.9625 Mz	Base Frequency 867.9625 Mz	Reserved for TXSP
Channel Number	751	Mobile Frequency 822.9750 Mz	Base Frequency 867.9750 Mz	Reserved for GUARD
Channel Number	752	Mobile Frequency 822.9875 Mz	Base Frequency 867.9875 Mz	Reserved for TXSP
Channel Number	753	Mobile Frequency 823.0125 Mz	Base Frequency 868.0125 Mz	Mutual aid

5.5.1 REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER) (continued)

Channel Number 754	Mobile Frequency 823.0375 Mz	Base Frequency 868.0375 Mz	Reserved for TXSP
Channel Number 755	Mobile Frequency 823.0500 Mz	Base Frequency 868.0500 Mz	Reserved for GUARD
Channel Number 756	Mobile Frequency 823.0625 Mz	Base Frequency 868.0625 Mz	Reserved for TXSP
Channel Number 757	Mobile Frequency 823.0750 Mz	Base Frequency 868.0750 Mz	Reserved for GUARD
Channel Number 758	Mobile Frequency 823.0875 Mz	Base Frequency 868.0875 Mz	EL PASO COUNTY
Channel Number 759	Mobile Frequency 823.1000 Mz	Base Frequency 868.1000 Mz	Unassigned
Channel Number 760	Mobile Frequency 823.1125 Mz	Base Frequency 868.1125 Mz	EL PASO COUNTY
Channel Number 761	Mobile Frequency 823.1250 Mz	Base Frequency 868.1250 Mz	Unassigned
Channel Number 762	Mobile Frequency 823.1375 Mz	Base Frequency 868.1375 Mz	EL PASO INTL AI RPORT
Channel Number 763	Mobile Frequency 823.1500 Mz	Base Frequency 868.1500 Mz	Unassigned
Channel Number 764	Mobile Frequency 823.1625 Mz	Base Frequency 868.1625 Mz	Unassigned
Channel Number 765	Mobile Frequency 823.1750 Mz	Base Frequency 868.1750 Mz	Unassigned
Channel Number 766	Mobile Frequency 823.1875 Mz	Base Frequency 868.1875 Mz	Unassigned
Channel Number 767	Mobile Frequency 823.2000 Mz	Base Frequency 868.2000 Mz	Unassigned
Channel Number 768	Mobile Frequency 823.2125 Mz	Base Frequency 868.2125 Mz	Unassigned
Channel Number 769	Mobile Frequency 823.2250 Mz	Base Frequency 868.2250 Mz	Unassigned
Channel Number 770	Mobile Frequency 823.2375 Mz	Base Frequency 868.2375 Mz	Unassigned

5.5.1 **REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER)** (continued)

Channel Number	771	Mobile Frequency 823.2500 Mz	Base Frequency 868.2500 Mz	Unassigned
Channel Number	772	Mobile Frequency 823.2625 Mz	Base Frequency 868.2625 Mz	Unassigned
Channel Number	773	Mobile Frequency 823.2750 Mz	Base Frequency 868.2750 Mz	Unassigned
Channel Number	774	Mobile Frequency 823.2875 Mz	Base Frequency 868.2875 Mz	Unassigned
Channel Number	775	Mobile Frequency 823.3000 Mz	Base Frequency 868.3000 Mz	Unassigned
Channel Number	776	Mobile Frequency 823.3125 Mz	Base Frequency 868.3125 Mz	Unassigned
Channel Number	777	Mobile Frequency 823.3250 Mz	Base Frequency 868.3250 Mz	Unassigned
Channel Number	778	Mobile Frequency 823.3375 Mz	Base Frequency 868.3375 Mz	MIDLAND
Channel Number	779	Mobile Frequency 823.3500 Mz	Base Frequency 868.3500 Mz	Unassigned
Channel Number	780	Mobile Frequency 823.3625 Mz	Base Frequency 868.3625 Mz	Unassigned
Channel Number	781	Mobile Frequency 823.3750 Mz	Base Frequency 868.3750 Mz	Unassigned
Channel Number	782	Mobile Frequency 823.3875 Mz	Base Frequency 868.3875 Mz	Unassigned
Channel Number	783	Mobile Frequency 823.4000 Mz	Base Frequency 868.4000 Mz	Unassigned
Channel Number	784	Mobile Frequency 823.4125 Mz	Base Frequency 868.4125 Mz	MIDLAND INTL AIRPORT
Channel Number	784	Mobile Frequency 823.4125 Mz	Base Frequency 868.4125 Mz	TOM GREEN
Channel Number	785	Mobile Frequency 823.4250 Mz	Base Frequency 868.4250 Mz	Unassigned
Channel Number	786	Mobile Frequency 823.4375 Mz	Base Frequency 868.4375 Mz	Unassigned
Channel Number	787	Mobile Frequency 823.4500 Mz	Base Frequency 868.4500 Mz	HUDSPETH

5.5.1 **REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER)** (continued)

Channel Number	788	Mobile Frequency 823.4625 Mz	Base Frequency 868.4625 Mz	Unassigned
Channel Number	789	Mobile Frequency 823.4750 Mz	Base Frequency 868.4750 Mz	EL PASO COUNTY
Channel Number	790	Mobile Frequency 823.4875 Mz	Base Frequency 868.4875 Mz	PECOS
Channel Number	791	Mobile Frequency 823.5000 Mz	Base Frequency 868.5000 Mz	EL PASO COUNTY
Channel Number	792	Mobile Frequency 823.5125 Mz	Base Frequency 868.5125 Mz	BREWSTER
Channel Number	793	Mobile Frequency 823.5250 Mz	Base Frequency 868.5250 Mz	EL PASO COUNTY
Channel Number	793	Mobile Frequency 823.5250 Mz	Base Frequency 868.5250 Mz	CULBERSON
Channel Number	794	Mobile Frequency 823.5375 Mz	Base Frequency 868.5375 Mz	Unassigned
Channel Number	795	Mobile Frequency 823.5500 Mz	Base Frequency 868.5500 Mz	EL PASO COUNTY
Channel Number	795	Mobile Frequency 823.5500 Mz	Base Frequency 868.5500 Mz	REEVES
Channel Number	796	Mobile Frequency 823.5625 Mz	Base Frequency 868.5625 Mz	ECTOR
Channel Number	797	Mobile Frequency 823.5750 Mz	Base Frequency 868.5750 Mz	EL PASO COUNTY
Channel Number	797	Mobile Frequency 823.5750 Mz	Base Frequency 868.5750 Mz	PRESIDIO
Channel Number	798	Mobile Frequency 823.5875 Mz	Base Frequency 868.5875 Mz	MIDLAND
Channel Number	799	Mobile Frequency 823.6000 Mz	Base Frequency 868.6000 Mz	EL PASO INTL AIRPORT
Channel Number	799	Mobile Frequency 823.6000 Mz	Base Frequency 868.6000 Mz	SUTTON
Channel Number	799	Mobile Frequency 823.6000 Mz	Base Frequency 868.6000 Mz	JEFF DAVIS
Channel Number	799	Mobile Frequency 823.6000 Mz	Base Frequency 868.6000 Mz	TERRELL
Channel Number	800	Mobile Frequency 823.6125 Mz	Base Frequency 868.6125 Mz	Unassigned
Channel Number	801	Mobile Frequency 823.6250 Mz	Base Frequency 868.6250 Mz	Unassigned

5.5.1 **REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER)** (continued)

Channel Number	802	Mobile Frequency 823.6375 Mz	Base Frequency 868.6375 Mz	Unassigned
Channel Number	803	Mobile Frequency 823.6500 Mz	Base Frequency 868.6500 Mz	TAYLOR
Channel Number	804	Mobile Frequency 823.6625 Mz	Base Frequency 868.6625 Mz	MIDLAND INTL AIRPORT
Channel Number	804	Mobile Frequency 823.6625 Mz	Base Frequency 868.6625 Mz	TOM GREEN
Channel Number	805	Mobile Frequency 823.6750 Mz	Base Frequency 868.6750 Mz	Unassigned
Channel Number	806	Mobile Frequency 823.6875 Mz	Base Frequency 868.6875 Mz	Unassigned
Channel Number	807	Mobile Frequency 823.7000 Mz	Base Frequency 868.7000 Mz	Unassigned
Channel Number	808	Mobile Frequency 823.7125 Mz	Base Frequency 868.7125 Mz	Unassigned
Channel Number	809	Mobile Frequency 823.7250 Mz	Base Frequency 868.7250 Mz	Unassigned
Channel Number	810	Mobile Frequency 823.7375 Mz	Base Frequency 868.7375 Mz	Unassigned
Channel Number	811	Mobile Frequency 823.7500 Mz	Base Frequency 868.7500 Mz	UPTON
Channel Number	812	Mobile Frequency 823.7625 Mz	Base Frequency 868.7625 Mz	STERLING
Channel Number	812	Mobile Frequency 823.7625 Mz	Base Frequency 868.7625 Mz	ANDREWS
Channel Number	813	Mobile Frequency 823.7750 Mz	Base Frequency 868.7750 Mz	FISHER
Channel Number	813	Mobile Frequency 823.7750 Mz	Base Frequency 868.7750 Mz	COLEMAN
Channel Number	814	Mobile Frequency 823.7875 Mz	Base Frequency 868.7875 Mz	REAGAN
Channel Number	814	Mobile Frequency 823.7875 Mz	Base Frequency 868.7875 Mz	GAINES
Channel Number	815	Mobile Frequency 823.8000 Mz	Base Frequency 868.8000 Mz	JONES
Channel Number	815	Mobile Frequency 823.8000 Mz	Base Frequency 868.8000 Mz	HOWARD
Channel Number	815	Mobile Frequency 823.8000 Mz	Base Frequency 868.8000 Mz	BROWN

5.5.1 **REGION 50 CHANNEL ASSIGNMENT, (NUMERICAL ORDER)** (continued)

Channel Number	816	Mobile Frequency 823.8125 Mz	Base Frequency 868.8125 Mz	RUNNELS
Channel Number	816	Mobile Frequency 823.8125 Mz	Base Frequency 868.8125 Mz	ECTOR
Channel Number	817	Mobile Frequency 823.8250 Mz	Base Frequency 868.8250 Mz	SHACKELFORD
Channel Number	817	Mobile Frequency 823.8250 Mz	Base Frequency 868.8250 Mz	BORDEN
Channel Number	817	Mobile Frequency 823.8250 Mz	Base Frequency 868.8250 Mz	LOVING
Channel Number	817	Mobile Frequency 823.8250 Mz	Base Frequency 868.8250 Mz	CROCKETT
Channel Number	818	Mobile Frequency 823.8375 Mz	Base Frequency 868.8375 Mz	STONEWALL
Channel Number	818	Mobile Frequency 823.8375 Mz	Base Frequency 868.8375 Mz	MIDLAND
Channel Number	818	Mobile Frequency 823.8375 Mz	Base Frequency 868.8375 Mz	COKE
Channel Number	818	Mobile Frequency 823.8375 Mz	Base Frequency 868.8375 Mz	MENARD
Channel Number	819	Mobile Frequency 823.8500 Mz	Base Frequency 868.8500 Mz	CALLAHAN
Channel Number	819	Mobile Frequency 823.8500 Mz	Base Frequency 868.8500 Mz	SCURRY
Channel Number	819	Mobile Frequency 823.8500 Mz	Base Frequency 868.8500 Mz	WARD
Channel Number	820	Mobile Frequency 823.8625 Mz	Base Frequency 868.8625 Mz	HASKELL
Channel Number	820	Mobile Frequency 823.8625 Mz	Base Frequency 868.8625 Mz	MARTIN
Channel Number	820	Mobile Frequency 823.8625 Mz	Base Frequency 868.8625 Mz	MCCULLOCH
Channel Number	820	Mobile Frequency 823.8625 Mz	Base Frequency 868.8625 Mz	IRION
Channel Number	821	Mobile Frequency 823.8750 Mz	Base Frequency 868.8750 Mz	EASTLAND
Channel Number	821	Mobile Frequency 823.8750 Mz	Base Frequency 868.8750 Mz	NOLAN
Channel Number	821	Mobile Frequency 823.8750 Mz	Base Frequency 868.8750 Mz	CRANE
Channel Number	821	Mobile Frequency 823.8750 Mz	Base Frequency 868.8750 Mz	KIMBLE
Channel Number	822	Mobile Frequency 823.8875 Mz	Base Frequency 868.8875 Mz	CONCHO
Channel Number	822	Mobile Frequency 823.8875 Mz	Base Frequency 868.8875 Mz	THROCKMORTON
Channel Number	822	Mobile Frequency 823.8875 Mz	Base Frequency 868.8875 Mz	GLASSCOCK
Channel Number	823	Mobile Frequency 823.9000 Mz	Base Frequency 868.9000 Mz	KENT
Channel Number	823	Mobile Frequency 823.9000 Mz	Base Frequency 868.9000 Mz	TAYLOR
Channel Number	823	Mobile Frequency 823.9000 Mz	Base Frequency 868.9000 Mz	MASON

Channel Number	823 Mobile Frequency 823.9000 Mz	Base Frequency 868.9000 Mz	DAWSON
Channel Number	823 Mobile Frequency 823.9000 Mz	Base Frequency 868.9000 Mz	WINKLER
Channel Number	823 Mobile Frequency 823.9000 Mz	Base Frequency 868.9000 Mz	COMANCHE
Channel Number	824 Mobile Frequency 823.9125 Mz	Base Frequency 868.9125 Mz	MIDLAND INTL AIRPORT
Channel Number	824 Mobile Frequency 823.9125 Mz	Base Frequency 868.9125 Mz	SCHLEICHER
Channel Number	824 Mobile Frequency 823.9125 Mz	Base Frequency 868.9125 Mz	KNOX
Channel Number	824 Mobile Frequency 823.9125 Mz	Base Frequency 868.9125 Mz	STEPHENS
Channel Number	824 Mobile Frequency 823.9125 Mz	Base Frequency 868.9125 Mz	MITCHELL
Channel Number	824 Mobile Frequency 823.9125 Mz	Base Frequency 868.9125 Mz	TOM GREEN
Channel Number	825 Mobile Frequency 823.9250 Mz	Base Frequency 868.9250 Mz	Reserved for GUARD
Channel Number	826 Mobile Frequency 823.9375 Mz	Base Frequency 868.9375 Mz	Reserved for TXSP
Channel Number	827 Mobile Frequency 823.9500 Mz	Base Frequency 868.9500 Mz	Reserved for GUARD
Channel Number	828 Mobile Frequency 823.9625 Mz	Base Frequency 868.9625 Mz	Reserved for TXSP
Channel Number	829 Mobile Frequency 823.9750 Mz	Base Frequency 868.9750 Mz	Reserved for GUARD
Channel Number	830 Mobile Frequency 823.9875 Mz	Base Frequency 868.9875 Mz	Unassigned

5.5.2 REGION 50, SITES AND ASSIGNED CHANNELS

Sites and Assigned Channels

EL PASO INTL AIRPORT	630	668	762	782	799
MIDLAND INTL AIRPORT	606	626	784	804	824
SCHLEICHER	606	824			
KNOX	606	824			
CONCHO	608	822			
THROCKMORTON	608	822			
HASKELL	610	820			
STONEWALL	612	818			
KENT	607	823			
STEPHENS	606	824			
SHACKELFORD	613	817			
JONES	615	815			
FISHER	617	813			
EASTLAND	610	821			
CALLAHAN	618	819			
TAYLOR	607	627	647	803	823
NOLAN	609	821			
MITCHELL	606	824			
RUNNELS	611	816			
GLASSCOCK	608	822			
MASON	607	823			
SCURRY	611	819			

BORDEN	613	817				
DAWSON	607	823				
HOWARD	615	815				
MARTIN	610	820				
MIDLAND	612	632	778	798	818	
ECTOR	614	634	654	796	816	
WINKLER	607	823				
CRANE	609	821				
WARD	611	819				
EL PASO COUNTY	606	608	610	632	634	644
	646	648	670	672	706	722
	724	746	748	758	760	789
	791	793	795	797		
BROWN	612	815				
COLEMAN	614	813				
COKE	613	818				
STERLING	618	812				
MCCULLOCH	610	820				
IRION	610	820				
REAGAN	616	814				
MENARD	613	818				
GAINES	616	814				
ANDREWS	618	812				
UPTON	619	811				
LOVING	613	817				
COMANCHE	607	823				

SUTTON	609	799			
JEFF DAVIS	606	799			
KIMBLE	615	821			
PRESIDIO	608	797			
HUDSPETH	682	787			
REEVES	630	795			
CULBERSON	610	793			
BREWSTER	632	792			
TERRELL	607	799			
PECOS	644	790			
CROCKETT	613	817			
TOM GREEN	615	644	784	804	824

\+ Border situation requiring odd channel numbers
* Old equipment requiring even channel numbers

5.5.3 REGION 50, SITES AND EXCLUDED CHANNELS

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*
* Sites and Excluded Channels
*
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EL PASO INTL AIRPORT	611 612 613 614 615 616 617 618 619 620
	621 622 623 624 625 626 627 628 629 649
	650 651 652 653 654 655 656 657 658 659
	660 661 662 663 664 665 666 667 687 688
	689 690 691 692 693 694 695 696 697 698
	699 700 701 702 703 704 705 725 726 727
	728 729 730 731 732 733 734 735 736 737
	738 739 740 741 742 763 764 765 766 767
	768 769 770 771 772 773 774 775 776 777
	778 779 780 800 801 802 803 804 805 806
	807 808 809 810 811 812 813 814 815 816
	817 818 819 820 821 822 823 824
MIDLAND INTL AIRPORT	none
SCHLEICHER	none
KNOX	none
CONCHO	none
THROCKMORTON	615 653
HASKELL	none
STONEWALL	none
KENT	none

STEPHENS	607 609 611 613 614 615 616 617 618 645 647 649 651 652 653 654 655 656
SHACKELFORD	615 617 653 655
JONES	none
FISHER	none
EASTLAND	609 611 613 614 615 616 617 618 633 647 649 651 652 653 654 655 656 671 709
CALLAHAN	615 617 653 655
TAYLOR	none
NOLAN	none
MITCHELL	none
RUNNELS	none
GLASSCOCK	none
MASON	none
SCURRY	none
BORDEN	none
DAWSON	none
HOWARD	none
MARTIN	none
MIDLAND	none
ECTOR	none
WINKLER	none
CRANE	none
WARD	none
EL PASO COUNTY	611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 649

	650 651 652 653 654 655 656 657 658 659
	660 661 662 663 664 665 666 667 687 688
	689 690 691 692 693 694 695 696 697 698
	699 700 701 702 703 704 705 725 726 727
	728 729 730 731 732 733 734 735 736 737
	738 739 740 741 742 763 764 765 766 767
	768 769 770 771 772 773 774 775 776 777
	778 779 780 800 801 802 803 804 805 806
	807 808 809 810 811 812 813 814 815 816
	817 818 819 820 821 822 823 824
BROWN	615 617 653 655
COLEMAN	617 655
COKE	none
STERLING	none
MCCULLOCH	none
IRION	none
REAGAN	none
MENARD	none
GAINES	none
ANDREWS	none
UPTON	none
LOVING	none
COMANCHE	609 611 613 615 616 617 618 633 647 649
	651 653 654 655 656 671 709
SUTTON	611 612 613 614 615 616 617 618 619 620
	621 622 623 624 625 626 627 628 629 649

	650 651 652 653 654 655 656 657 658 659
	660 661 662 663 664 665 666 667 687 688
	689 690 691 692 693 694 695 696 697 698
	699 700 701 702 703 704 705 725 726 727
	728 729 730 731 732 733 734 735 736 737
	738 739 740 741 742 763 764 765 766 767
	768 769 770 771 772 773 774 775 776 777
	778 779 780 800 801 802 803 804 805 806
	807 808 809 810 811 812 813 814 815 816
	817 818 819 820 821 822 823 824
JEFF DAVIS	611 612 613 614 615 616 617 618 619 620
	621 622 623 624 625 626 627 628 629 649
	650 651 652 653 654 655 656 657 658 659
	660 661 662 663 664 665 666 667 687 688
	689 690 691 692 693 694 695 696 697 698
	699 700 701 702 703 704 705 725 726 727
	728 729 730 731 732 733 734 735 736 737
	738 739 740 741 742 763 764 765 766 767
	768 769 770 771 772 773 774 775 776 777
	778 779 780 800 801 802 803 804 805 806
	807 808 809 810 811 812 813 814 815 816
	817 818 819 820 821 822 823 824
KIMBLE	none
PRESIDIO	611 612 613 614 615 616 617 618 619 620
	621 622 623 624 625 626 627 628 629 649
	650 651 652 653 654 655 656 657 658 659

660 661 662 663 664 665 666 667 687 688

689 690 691 692 693 694 695 696 697 698

699 700 701 702 703 704 705 725 726 727

728 729 730 731 732 733 734 735 736 737

738 739 740 741 742 763 764 765 766 767

768 769 770 771 772 773 774 775 776 777

778 779 780 800 801 802 803 804 805 806

807 808 809 810 811 812 813 814 815 816

817 818 819 820 821 822 823 824

HUDSPETH 611 612 613 614 615 616 617 618 619 620

621 622 623 624 625 626 627 628 629 649

650 651 652 653 654 655 656 657 658 659

660 661 662 663 664 665 666 667 687 688

689 690 691 692 693 694 695 696 697 698

699 700 701 702 703 704 705 725 726 727

728 729 730 731 732 733 734 735 736 737

738 739 740 741 742 763 764 765 766 767

768 769 770 771 772 773 774 775 776 777

778 779 780 800 801 802 803 804 805 806

807 808 809 810 811 812 813 814 815 816

817 818 819 820 821 822 823 824

REEVES 611 612 613 614 615 616 617 618 619 620

621 622 623 624 625 626 627 628 629 649

650 651 652 653 654 655 656 657 658 659

660 661 662 663 664 665 666 667 687 688

689 690 691 692 693 694 695 696 697 698

	699 700 701 702 703 704 705 725 726 727
	728 729 730 731 732 733 734 735 736 737
	738 739 740 741 742 763 764 765 766 767
	768 769 770 771 772 773 774 775 776 777
	778 779 780 800 801 802 803 804 805 806
	807 808 809 810 811 812 813 814 815 816
	817 818 819 820 821 822 823 824
CULBERSON	611 612 613 614 615 616 617 618 619 620
	621 622 623 624 625 626 627 628 629 649
	650 651 652 653 654 655 656 657 658 659
	660 661 662 663 664 665 666 667 687 688
	689 690 691 692 693 694 695 696 697 698
	699 700 701 702 703 704 705 725 726 727
	728 729 730 731 732 733 734 735 736 737
	738 739 740 741 742 763 764 765 766 767
	768 769 770 771 772 773 774 775 776 777
	778 779 780 800 801 802 803 804 805 806
	807 808 809 810 811 812 813 814 815 816
	817 818 819 820 821 822 823 824
BREWSTER	611 612 613 614 615 616 617 618 619 620
	621 622 623 624 625 626 627 628 629 649
	650 651 652 653 654 655 656 657 658 659
	660 661 662 663 664 665 666 667 687 688
	689 690 691 692 693 694 695 696 697 698
	699 700 701 702 703 704 705 725 726 727
	728 729 730 731 732 733 734 735 736 737

	738 739 740 741 742 763 764 765 766 767
	768 769 770 771 772 773 774 775 776 777
	778 779 780 800 801 802 803 804 805 806
	807 808 809 810 811 812 813 814 815 816
	817 818 819 820 821 822 823 824
TERRELL	611 612 613 614 615 616 617 618 619 620
	621 622 623 624 625 626 627 628 629 649
	650 651 652 653 654 655 656 657 658 659
	660 661 662 663 664 665 666 667 687 688
	689 690 691 692 693 694 695 696 697 698
	699 700 701 702 703 704 705 725 726 727
	728 729 730 731 732 733 734 735 736 737
	738 739 740 741 742 763 764 765 766 767
	768 769 770 771 772 773 774 775 776 777
	778 779 780 800 801 802 803 804 805 806
	807 808 809 810 811 812 813 814 815 816
	817 818 819 820 821 822 823 824
PECOS	611 612 613 614 615 616 617 618 619 620
	621 622 623 624 625 626 627 628 629 649
	650 651 652 653 654 655 656 657 658 659
	660 661 662 663 664 665 666 667 687 688
	689 690 691 692 693 694 695 696 697 698
	699 700 701 702 703 704 705 725 726 727
	728 729 730 731 732 733 734 735 736 737
	738 739 740 741 742 763 764 765 766 767

	768 769 770 771 772 773 774 775 776 777
	778 779 780 800 801 802 803 804 805 806
	807 808 809 810 811 812 813 814 815 816
	817 818 819 820 821 822 823 824
CROCKETT	none
TOM GREEN	none

5.5.4 REGION 50 SITES, CO-CHANNEL AND ADJACENT CHANNEL USERS

Site : EL PASO INTL AIRPORT

Co-channel Users

REEVES	148.34 miles
SUTTON	343.21 miles
JEFF DAVIS	129.88 miles
TERRELL	263.99 miles

Adjacent channel Users

MIDLAND	253.17 miles

Site : MIDLAND INTL AIRPORT

Co-channel Users

SCHLEICHER	109.56 miles
KNOX	176.20 miles
STEPHENS	195.70 miles
MITCHELL	71.10 miles
EL PASO COUNTY	230.20 miles
JEFF DAVIS	123.11 miles
TOM GREEN	113.99 miles

Adjacent channel Users

KENT	108.57 miles
TAYLOR	130.13 miles
MASON	184.60 miles
DAWSON	48.77 miles
WINKLER	42.60 miles
COMANCHE	202.30 miles
TERRELL	97.09 miles

Site : SCHLEICHER

Co-channel Users

MIDLAND INTL AIRPORT	109.56 miles
KNOX	183.91 miles
STEPHENS	143.63 miles
MITCHELL	89.21 miles
EL PASO COUNTY	316.54 miles
JEFF DAVIS	170.54 miles
TOM GREEN	49.34 miles

Adjacent channel Users

KENT	150.14 miles

Site : SCHLEICHER continued

Adjacent channel Users

TAYLOR	92.07 miles
MASON	56.09 miles
DAWSON	133.48 miles
WINKLER	138.92 miles
COMANCHE	118.30 miles
TERRELL	63.73 miles

Site : KNOX

Co-channel Users

MIDLAND INTL AIRPORT	176.20 miles
SCHLEICHER	183.91 miles
STEPHENS	60.60 miles
MITCHELL	95.90 miles
EL PASO COUNTY	383.00 miles
JEFF DAVIS	298.90 miles
TOM GREEN	135.27 miles

Adjacent channel Users

KENT	48.91 miles
TAYLOR	78.56 miles
MASON	187.72 miles
DAWSON	123.68 miles
WINKLER	209.21 miles
COMANCHE	113.43 miles
TERRELL	236.13 miles

Site : CONCHO

Co-channel Users

THROCKMORTON	115.35 miles
GLASSCOCK	87.21 miles
EL PASO COUNTY	362.11 miles
PRESIDIO	250.92 miles

Adjacent channel Users

KENT	119.69 miles
TAYLOR	52.93 miles
MASON	35.41 miles
DAWSON	136.10 miles
WINKLER	175.88 miles

Site : CONCHO continued

Adjacent channel Users

COMANCHE	72.24 miles
TERRELL	117.40 miles
NOLAN	55.10 miles
CRANE	143.21 miles
SUTTON	46.08 miles
EASTLAND	70.55 miles
KIMBLE	41.68 miles

Site : THROCKMORTON

Co-channel Users

CONCHO	115.35 miles
GLASSCOCK	141.84 miles
EL PASO COUNTY	403.91 miles
PRESIDIO	338.30 miles

Adjacent channel Users

KENT	74.16 miles
TAYLOR	52.67 miles
MASON	155.35 miles
DAWSON	143.93 miles
WINKLER	222.13 miles
COMANCHE	72.54 miles
TERRELL	226.15 miles
NOLAN	72.37 miles
CRANE	209.24 miles
SUTTON	179.62 miles
EASTLAND	48.31 miles
KIMBLE	171.04 miles

Site : HASKELL

Co-channel Users

EASTLAND	59.67 miles
MARTIN	123.24 miles
EL PASO COUNTY	375.62 miles
MCCULLOCH	119.05 miles
IRION	128.68 miles
CULBERSON	268.05 miles

Adjacent channel Users

NOLAN	53.87 miles

Site : HASKELL continued

Adjacent channel Users

CRANE	184.81 miles
SUTTON	173.18 miles
RUNNELS	77.09 miles
SCURRY	58.10 miles
WARD	206.23 miles
CALLAHAN	47.01 miles
EASTLAND	59.67 miles
KIMBLE	170.41 miles

Site : STONEWALL

Co-channel Users

MIDLAND	116.36 miles
BROWN	98.65 miles
COKE	76.48 miles
MENARD	144.34 miles

Adjacent channel Users

RUNNELS	77.73 miles
SCURRY	29.59 miles
WARD	179.90 miles
SHACKELFORD	41.99 miles
BORDEN	55.70 miles
COKE	76.48 miles
MENARD	144.34 miles
LOVING	196.04 miles
CROCKETT	152.01 miles
CALLAHAN	59.88 miles

Site : KENT

Co-channel Users

TAYLOR	59.51 miles
MASON	172.30 miles
DAWSON	54.30 miles
WINKLER	139.52 miles
COMANCHE	129.98 miles
TERRELL	182.32 miles

Adjacent channel Users

MIDLAND INTL AIRPORT	108.57 miles

Site : KENT continued

Adjacent channel Users

SCHLEICHER	150.14 miles
KNOX	48.91 miles
STEPHENS	98.20 miles
MITCHELL	46.38 miles
EL PASO COUNTY	314.74 miles
JEFF DAVIS	231.67 miles
CONCHO	119.69 miles
THROCKMORTON	74.16 miles
GLASSCOCK	81.36 miles
PRESIDIO	268.33 miles
TOM GREEN	102.56 miles

Site : STEPHENS

Co-channel Users

MIDLAND INTL AIRPORT	195.70 miles
SCHLEICHER	143.63 miles
KNOX	60.60 miles
MITCHELL	109.00 miles
EL PASO COUNTY	422.17 miles
JEFF DAVIS	308.31 miles
TOM GREEN	105.70 miles

Adjacent channel Users

KENT	98.20 miles
TAYLOR	50.01 miles
MASON	127.02 miles

DAWSON	165.62 miles
WINKLER	236.35 miles
COMANCHE	36.76 miles
TERRELL	220.65 miles

Site : SHACKELFORD

Co-channel Users

BORDEN	106.65 miles
COKE	70.15 miles
MENARD	114.83 miles
LOVING	238.49 miles
CROCKETT	150.48 miles

Adjacent channel Users

STONEWALL	41.99 miles

Site : SHACKELFORD continued

Adjacent channel Users

MIDLAND	149.52 miles
BROWN	47.50 miles
ECTOR	178.16 miles
COLEMAN	47.69 miles
RUNNELS	52.85 miles
COKE	70.15 miles
MENARD	114.83 miles

Site : JONES

Co-channel Users

HOWARD	78.57 miles
KIMBLE	140.44 miles
TOM GREEN	72.89 miles
BROWN	61.61 miles

Adjacent channel Users

ECTOR	147.48 miles
COLEMAN	48.19 miles
REAGAN	113.01 miles
GAINES	136.18 miles
RUNNELS	47.56 miles

Site : FISHER

Co-channel Users

COLEMAN	61.25 miles

Adjacent channel Users

REAGAN	93.92 miles
GAINES	106.80 miles
CALLAHAN	47.68 miles
STERLING	53.91 miles
ANDREWS	108.82 miles

Site : EASTLAND

Co-channel Users

HASKELL	59.67 miles
MARTIN	165.24 miles
EL PASO COUNTY	419.24 miles
MCCULLOCH	61.37 miles
IRION	121.00 miles
CULBERSON	307.10 miles
NOLAN	76.40 miles
CRANE	207.92 miles
KIMBLE	116.53 miles

Adjacent channel Users

NOLAN	76.40 miles
CRANE	207.92 miles
SUTTON	134.79 miles
RUNNELS	54.70 miles
SCURRY	107.60 miles
WARD	233.34 miles
HASKELL	59.67 miles
MARTIN	165.24 miles
MCCULLOCH	61.37 miles
IRION	121.00 miles
CONCHO	70.55 miles
THROCKMORTON	48.31 miles
GLASSCOCK	142.42 miles

Site : CALLAHAN

Co-channel Users

STERLING	87.08 miles
ANDREWS	167.03 miles
SCURRY	78.44 miles
WARD	204.51 miles

Adjacent channel Users

FISHER	47.68 miles
UPTON	151.04 miles
STONEWALL	59.88 miles
MIDLAND	141.87 miles
COKE	53.84 miles
MENARD	85.82 miles
HASKELL	47.01 miles
MARTIN	135.77 miles
MCCULLOCH	59.79 miles

Site : CALLAHAN continued

Adjacent channel Users

IRION	96.09 miles

Site : TAYLOR

Co-channel Users

KENT	59.51 miles
MASON	98.70 miles
DAWSON	106.55 miles
WINKLER	171.92 miles
COMANCHE	60.32 miles
TERRELL	155.97 miles

Adjacent channel Users

MIDLAND INTL AIRPORT	130.13 miles
SCHLEICHER	92.07 miles
KNOX	78.56 miles
STEPHENS	50.01 miles
MITCHELL	46.94 miles
EL PASO COUNTY	359.33 miles
JEFF DAVIS	240.45 miles
CONCHO	52.93 miles

THROCKMORTON	52.67 miles
GLASSCOCK	83.12 miles
PRESIDIO	274.33 miles
TOM GREEN	44.59 miles

Site : NOLAN

Co-channel Users

CRANE	120.52 miles
SUTTON	109.96 miles
EASTLAND	76.40 miles
KIMBLE	110.24 miles

Adjacent channel Users

CONCHO	55.10 miles
THROCKMORTON	72.37 miles
GLASSCOCK	53.09 miles
EL PASO COUNTY	328.84 miles
PRESIDIO	247.13 miles
HASKELL	53.87 miles
EASTLAND	76.40 miles
MARTIN	75.03 miles
MCCULLOCH	75.05 miles
IRION	56.62 miles
CULBERSON	216.82 miles

Site : MITCHELL

Co-channel Users

MIDLAND INTL AIRPORT	71.10 miles
SCHLEICHER	89.21 miles
KNOX	95.90 miles
STEPHENS	109.00 miles
EL PASO COUNTY	299.40 miles
JEFF DAVIS	187.96 miles
TOM GREEN	49.81 miles

Adjacent channel Users

KENT	46.38 miles
TAYLOR	46.94 miles
MASON	127.42 miles
DAWSON	47.50 miles
WINKLER	112.22 miles
COMANCHE	120.64 miles
TERRELL	123.12 miles

Site : RUNNELS

Co-channel Users

SCURRY	62.54 miles
WARD	163.82 miles
ECTOR	134.92 miles

Adjacent channel Users

HASKELL	77.09 miles
EASTLAND	54.70 miles
MARTIN	101.47 miles
EL PASO COUNTY	353.44 miles
MCCULLOCH	33.91 miles
IRION	46.55 miles
CULBERSON	240.81 miles

Site : RUNNELS continued

Adjacent channel Users

STONEWALL	77.73 miles
MIDLAND	104.86 miles
BROWN	46.71 miles
JONES	47.56 miles
HOWARD	73.21 miles
SHACKELFORD	52.85 miles
BORDEN	84.74 miles
LOVING	195.94 miles
CROCKETT	77.55 miles

Site : GLASSCOCK

Co-channel Users

CONCHO	87.21 miles
THROCKMORTON	141.84 miles
EL PASO COUNTY	263.73 miles
PRESIDIO	176.95 miles

Adjacent channel Users

KENT	81.36 miles
TAYLOR	83.12 miles
MASON	136.56 miles
DAWSON	45.74 miles
WINKLER	76.01 miles

COMANCHE	154.87 miles
TERRELL	84.80 miles
NOLAN	53.09 miles
CRANE	49.57 miles
SUTTON	87.52 miles
EASTLAND	142.42 miles
KIMBLE	114.78 miles

Site : MASON

Co-channel Users

KENT	172.30 miles
TAYLOR	98.70 miles
DAWSON	190.62 miles
WINKLER	220.35 miles
COMANCHE	76.08 miles
TERRELL	144.32 miles

Adjacent channel Users

MIDLAND INTL AIRPORT	184.60 miles

Site : MASON continued

Adjacent channel Users

SCHLEICHER	56.09 miles
KNOX	187.72 miles
STEPHENS	127.02 miles
MITCHELL	127.42 miles
EL PASO COUNTY	401.68 miles
JEFF DAVIS	255.42 miles
CONCHO	35.41 miles
THROCKMORTON	155.35 miles
GLASSCOCK	136.56 miles
PRESIDIO	279.74 miles
TOM GREEN	77.99 miles

Site : SCURRY

Co-channel Users

RUNNELS	62.54 miles
WARD	131.19 miles
CALLAHAN	78.44 miles

Adjacent channel Users

HASKELL	58.10 miles
EASTLAND	107.60 miles
MARTIN	47.56 miles
EL PASO COUNTY	301.96 miles
MCCULLOCH	118.18 miles
IRION	85.31 miles
CULBERSON	192.84 miles
STONEWALL	29.59 miles
MIDLAND	67.60 miles
BROWN	111.35 miles
COKE	47.50 miles
MENARD	123.05 miles

Site : BORDEN

Co-channel Users

SHACKELFORD	106.65 miles
COKE	59.45 miles
MENARD	137.21 miles
LOVING	122.41 miles
CROCKETT	114.95 miles

Adjacent channel Users

STONEWALL	55.70 miles

Site : BORDEN continued

Adjacent channel Users

MIDLAND	50.46 miles
BROWN	138.54 miles
ECTOR	68.16 miles
COLEMAN	110.93 miles
RUNNELS	84.74 miles
COKE	59.45 miles
MENARD	137.21 miles

Site : DAWSON

Co-channel Users

KENT	54.30 miles
TAYLOR	106.55 miles
MASON	190.62 miles
WINKLER	68.43 miles

COMANCHE	182.87 miles
TERRELL	144.44 miles

Adjacent channel Users

MIDLAND INTL AIRPORT	48.77 miles
SCHLEICHER	133.48 miles
KNOX	123.68 miles
STEPHENS	165.62 miles
MITCHELL	47.50 miles
EL PASO COUNTY	244.03 miles
JEFF DAVIS	165.89 miles
CONCHO	136.10 miles
THROCKMORTON	143.93 miles
GLASSCOCK	45.74 miles
PRESIDIO	202.61 miles
TOM GREEN	112.83 miles

Site : HOWARD

Co-channel Users

JONES	78.57 miles
KIMBLE	133.79 miles
TOM GREEN	71.49 miles
BROWN	132.81 miles

Adjacent channel Users

ECTOR	51.55 miles

Site : HOWARD continued

Adjacent channel Users

COLEMAN	103.08 miles
REAGAN	45.67 miles
GAINES	49.06 miles
RUNNELS	73.21 miles

Site : MARTIN

Co-channel Users

HASKELL	123.24 miles
EASTLAND	165.24 miles
EL PASO COUNTY	239.06 miles
MCCULLOCH	149.48 miles

IRION	67.36 miles
CULBERSON	127.72 miles

Adjacent channel Users

NOLAN	75.03 miles
CRANE	50.38 miles
SUTTON	124.68 miles
RUNNELS	101.47 miles
SCURRY	47.56 miles
WARD	65.40 miles
CALLAHAN	135.77 miles
EASTLAND	165.24 miles
KIMBLE	152.90 miles

Site : MIDLAND

Co-channel Users

STONEWALL	116.36 miles
BROWN	165.37 miles
EL PASO COUNTY	232.51 miles
BREWSTER	119.48 miles
COKE	70.63 miles
MENARD	123.07 miles

Adjacent channel Users

RUNNELS	104.86 miles
SCURRY	67.60 miles
WARD	44.15 miles
SHACKELFORD	149.52 miles

Site : MIDLAND continued

Adjacent channel Users

BORDEN	50.46 miles
COKE	70.63 miles
MENARD	123.07 miles
LOVING	74.84 miles
CROCKETT	48.33 miles
EL PASO COUNTY	232.51 miles
PRESIDIO	152.38 miles
EL PASO INTL AIRPORT	253.17 miles
SUTTON	101.50 miles
JEFF DAVIS	116.09 miles
TERRELL	83.66 miles
CALLAHAN	141.87 miles

Site : ECTOR

Co-channel Users

COLEMAN	165.41 miles
EL PASO COUNTY	202.50 miles
RUNNELS	134.92 miles

Adjacent channel Users

SHACKELFORD	178.16 miles
BORDEN	68.16 miles
COKE	100.69 miles
MENARD	151.10 miles
LOVING	45.00 miles
CROCKETT	50.38 miles
JONES	147.48 miles
HOWARD	51.55 miles
KIMBLE	162.70 miles
TOM GREEN	124.01 miles
EL PASO COUNTY	202.50 miles
REEVES	45.44 miles
PRESIDIO	132.46 miles
BROWN	195.46 miles

Site : WINKLER

Co-channel Users

KENT	139.52 miles
TAYLOR	171.92 miles
MASON	220.35 miles
DAWSON	68.43 miles
COMANCHE	244.63 miles
TERRELL	97.88 miles

Adjacent channel Users

MIDLAND INTL AIRPORT	42.60 miles
SCHLEICHER	138.92 miles
KNOX	209.21 miles
STEPHENS	236.35 miles
MITCHELL	112.22 miles
EL PASO COUNTY	171.98 miles
JEFF DAVIS	77.70 miles
CONCHO	175.88 miles
THROCKMORTON	222.13 miles
GLASSCOCK	76.01 miles
PRESIDIO	115.82 miles
TOM GREEN	154.86 miles

Site : CRANE

Co-channel Users

NOLAN	120.52 miles
SUTTON	101.26 miles
EASTLAND	207.92 miles
KIMBLE	147.50 miles

Adjacent channel Users

CONCHO	143.21 miles
THROCKMORTON	209.24 miles
GLASSCOCK	49.57 miles
EL PASO COUNTY	204.39 miles
PRESIDIO	116.04 miles
HASKELL	184.81 miles
EASTLAND	207.92 miles
MARTIN	50.38 miles
MCCULLOCH	172.95 miles
IRION	73.86 miles
CULBERSON	94.23 miles

Site : WARD

Co-channel Users

RUNNELS	163.82 miles
SCURRY	131.19 miles
CALLAHAN	204.51 miles

Adjacent channel Users

HASKELL	206.23 miles
EASTLAND	233.34 miles
MARTIN	65.40 miles
EL PASO COUNTY	161.02 miles
MCCULLOCH	200.96 miles
IRION	102.20 miles
CULBERSON	51.00 miles
STONEWALL	179.90 miles
MIDLAND	44.15 miles
BROWN	223.34 miles
COKE	130.36 miles
MENARD	171.72 miles

Site : EL PASO COUNTY

Co-channel Users

MIDLAND INTL AIRPORT	230.20 miles
SCHLEICHER	316.54 miles
KNOX	383.00 miles
STEPHENS	422.17 miles
MITCHELL	299.40 miles
JEFF DAVIS	101.16 miles
CONCHO	362.11 miles
THROCKMORTON	403.91 miles
GLASSCOCK	263.73 miles
PRESIDIO	111.84 miles
HASKELL	375.62 miles
EASTLAND	419.24 miles
MARTIN	239.06 miles
MCCULLOCH	391.83 miles
IRION	293.06 miles
CULBERSON	81.63 miles
MIDLAND	232.51 miles
BREWSTER	169.33 miles
ECTOR	202.50 miles
PECOS	168.58 miles
TOM GREEN	342.06 miles
REEVES	127.57 miles

Adjacent channel Users

KENT	314.74 miles

Site : EL PASO COUNTY continued

Adjacent channel Users

TAYLOR	359.33 miles
MASON	401.68 miles
DAWSON	244.03 miles
WINKLER	171.98 miles
COMANCHE	432.34 miles
TERRELL	236.57 miles
NOLAN	328.84 miles
CRANE	204.39 miles
SUTTON	318.19 miles
RUNNELS	353.44 miles
SCURRY	301.96 miles
WARD	161.02 miles
PECOS	168.58 miles
BREWSTER	169.33 miles
ECTOR	202.50 miles
MIDLAND	232.51 miles

Site : BROWN

Co-channel Users

STONEWALL	98.65 miles
MIDLAND	165.37 miles
JONES	61.61 miles
HOWARD	132.81 miles

Adjacent channel Users

RUNNELS	46.71 miles
SCURRY	111.35 miles
WARD	223.34 miles
SHACKELFORD	47.50 miles
BORDEN	138.54 miles
COKE	75.38 miles
MENARD	54.66 miles
LOVING	256.52 miles
CROCKETT	125.24 miles
REAGAN	136.95 miles
GAINES	197.50 miles
ECTOR	195.46 miles

Site : COLEMAN

Co-channel Users

ECTOR	165.41 miles
FISHER	61.25 miles

Adjacent channel Users

SHACKELFORD	47.69 miles
BORDEN	110.93 miles
COKE	45.33 miles
MENARD	42.99 miles
LOVING	226.46 miles
CROCKETT	99.90 miles
JONES	48.19 miles
HOWARD	103.08 miles
KIMBLE	66.95 miles
TOM GREEN	43.24 miles
STERLING	79.56 miles
ANDREWS	162.88 miles
REAGAN	108.78 miles
GAINES	168.71 miles

Site : COKE

Co-channel Users

SHACKELFORD	70.15 miles
BORDEN	59.45 miles
MENARD	61.03 miles
LOVING	161.71 miles
CROCKETT	64.00 miles
STONEWALL	76.48 miles
MIDLAND	70.63 miles

Adjacent channel Users

STONEWALL	76.48 miles
MIDLAND	70.63 miles
BROWN	75.38 miles
ECTOR	100.69 miles
COLEMAN	45.33 miles
SHACKELFORD	70.15 miles
BORDEN	59.45 miles
LOVING	161.71 miles
CROCKETT	64.00 miles
CALLAHAN	53.84 miles
SCURRY	47.50 miles
WARD	130.36 miles

Site : COKE continued

Adjacent channel Users

Site : STERLING

Co-channel Users

CALLAHAN	87.08 miles
ANDREWS	73.59 miles

Adjacent channel Users

FISHER	53.91 miles
UPTON	48.13 miles
COLEMAN	79.56 miles

Site : MCCULLOCH

Co-channel Users

HASKELL	119.05 miles
EASTLAND	61.37 miles
MARTIN	149.48 miles
EL PASO COUNTY	391.83 miles
IRION	79.25 miles
CULBERSON	281.14 miles

Adjacent channel Users

NOLAN	75.05 miles
CRANE	172.95 miles
SUTTON	57.82 miles
RUNNELS	33.91 miles
SCURRY	118.18 miles
WARD	200.96 miles
CALLAHAN	59.79 miles
EASTLAND	61.37 miles
KIMBLE	32.76 miles

Site : IRION

Co-channel Users

HASKELL	128.68 miles
EASTLAND	121.00 miles
MARTIN	67.36 miles
EL PASO COUNTY	293.06 miles
MCCULLOCH	79.25 miles
CULBERSON	183.19 miles

Adjacent channel Users

NOLAN	56.62 miles
CRANE	73.86 miles
SUTTON	43.72 miles
RUNNELS	46.55 miles
SCURRY	85.31 miles
WARD	102.20 miles
CALLAHAN	96.09 miles
EASTLAND	121.00 miles
KIMBLE	63.92 miles

Site : REAGAN

Co-channel Users

GAINES	88.55 miles

Adjacent channel Users

JONES	113.01 miles
HOWARD	45.67 miles
KIMBLE	93.44 miles
TOM GREEN	65.70 miles
FISHER	93.92 miles
COLEMAN	108.78 miles
BROWN	136.95 miles

Site : MENARD

Co-channel Users

SHACKELFORD	114.83 miles
BORDEN	137.21 miles
COKE	61.03 miles
LOVING	209.88 miles
CROCKETT	63.74 miles
STONEWALL	144.34 miles

Co-channel Users

MIDLAND	123.07 miles

Adjacent channel Users

STONEWALL	144.34 miles
MIDLAND	123.07 miles
BROWN	54.66 miles
ECTOR	151.10 miles
COLEMAN	42.99 miles
SHACKELFORD	114.83 miles
BORDEN	137.21 miles
LOVING	209.88 miles
CROCKETT	63.74 miles
CALLAHAN	85.82 miles
SCURRY	123.05 miles
WARD	171.72 miles

Site : GAINES

Co-channel Users

REAGAN	88.55 miles

Adjacent channel Users

JONES	136.18 miles
HOWARD	49.06 miles
KIMBLE	198.14 miles
TOM GREEN	139.91 miles
FISHER	106.80 miles
COLEMAN	168.71 miles
BROWN	197.50 miles

Site : ANDREWS

Co-channel Users

CALLAHAN	167.03 miles
STERLING	73.59 miles

Adjacent channel Users

FISHER	108.82 miles
UPTON	49.21 miles

Site : ANDREWS continued

Adjacent channel Users

COLEMAN	162.88 miles

Site : UPTON

Co-channel Users

Adjacent channel Users

CALLAHAN	151.04 miles
STERLING	48.13 miles
ANDREWS	49.21 miles

Site : LOVING

Co-channel Users

SHACKELFORD	238.49 miles
BORDEN	122.41 miles
COKE	161.71 miles
MENARD	209.88 miles
CROCKETT	90.92 miles

Adjacent channel Users

STONEWALL	196.04 miles
MIDLAND	74.84 miles
BROWN	256.52 miles
ECTOR	45.00 miles
COLEMAN	226.46 miles
RUNNELS	195.94 miles
COKE	161.71 miles
MENARD	209.88 miles

Site : COMANCHE

Co-channel Users

KENT	129.98 miles
TAYLOR	60.32 miles
MASON	76.08 miles
DAWSON	182.87 miles
WINKLER	244.63 miles
TERRELL	206.57 miles

Site : COMANCHE continued

Co-channel Users

Adjacent channel Users

MIDLAND INTL AIRPORT	202.30 miles
SCHLEICHER	118.30 miles
KNOX	113.43 miles
STEPHENS	36.76 miles
MITCHELL	120.64 miles
EL PASO COUNTY	432.34 miles
JEFF DAVIS	304.77 miles
CONCHO	72.24 miles
THROCKMORTON	72.54 miles
GLASSCOCK	154.87 miles
PRESIDIO	336.44 miles
TOM GREEN	95.64 miles

Site : SUTTON

Co-channel Users

NOLAN	109.96 miles
CRANE	101.26 miles
EL PASO INTL AIRPORT	343.21 miles
JEFF DAVIS	167.62 miles
TERRELL	56.39 miles

Adjacent channel Users

CONCHO	46.08 miles
THROCKMORTON	179.62 miles
GLASSCOCK	87.52 miles
EL PASO COUNTY	318.19 miles
PRESIDIO	190.69 miles
HASKELL	173.18 miles
EASTLAND	134.79 miles
MARTIN	124.68 miles
MCCULLOCH	57.82 miles
IRION	43.72 miles
CULBERSON	207.74 miles
MIDLAND	101.50 miles

Site : JEFF DAVIS

Co-channel Users

MIDLAND INTL AIRPORT	123.11 miles
SCHLEICHER	170.54 miles
KNOX	298.90 miles
STEPHENS	308.31 miles
MITCHELL	187.96 miles
EL PASO COUNTY	101.16 miles

EL PASO INTL AIRPORT	129.88 miles
SUTTON	167.62 miles
TERRELL	80.50 miles

Adjacent channel Users

KENT	231.67 miles
TAYLOR	240.45 miles
MASON	255.42 miles
DAWSON	165.89 miles
WINKLER	77.70 miles
COMANCHE	304.77 miles
TERRELL	80.50 miles
MIDLAND	116.09 miles

Site : KIMBLE

Co-channel Users

JONES	140.44 miles
HOWARD	133.79 miles
TOM GREEN	71.93 miles
EASTLAND	116.53 miles
NOLAN	110.24 miles
CRANE	147.50 miles

Adjacent channel Users

ECTOR	162.70 miles
COLEMAN	66.95 miles
REAGAN	93.44 miles
GAINES	198.14 miles
HASKELL	170.41 miles
MARTIN	152.90 miles
MCCULLOCH	32.76 miles
IRION	63.92 miles
CONCHO	41.68 miles
THROCKMORTON	171.04 miles
GLASSCOCK	114.78 miles

Site : PRESIDIO

Co-channel Users

CONCHO	250.92 miles
THROCKMORTON	338.30 miles
GLASSCOCK	176.95 miles
EL PASO COUNTY	111.84 miles

Adjacent channel Users

KENT	268.33 miles
TAYLOR	274.33 miles
MASON	279.74 miles
DAWSON	202.61 miles
WINKLER	115.82 miles
COMANCHE	336.44 miles
TERRELL	96.06 miles
NOLAN	247.13 miles
CRANE	116.04 miles
SUTTON	190.69 miles
ECTOR	132.46 miles
MIDLAND	152.38 miles

Site : HUDSPETH

Co-channel Users

Adjacent channel Users

Site : REEVES

Co-channel Users

EL PASO INTL AIRPORT	148.34 miles
EL PASO COUNTY	127.57 miles

Adjacent channel Users

ECTOR	45.44 miles

Site : CULBERSON

Co-channel Users

HASKELL	268.05 miles
EASTLAND	307.10 miles
MARTIN	127.72 miles
EL PASO COUNTY	81.63 miles
MCCULLOCH	281.14 miles
IRION	183.19 miles

Adjacent channel Users

NOLAN	216.82 miles
CRANE	94.23 miles
SUTTON	207.74 miles
RUNNELS	240.81 miles
SCURRY	192.84 miles
WARD	51.00 miles
BREWSTER	71.93 miles

Site : BREWSTER

Co-channel Users

MIDLAND	119.48 miles
EL PASO COUNTY	169.33 miles

Adjacent channel Users

EL PASO COUNTY	169.33 miles
CULBERSON	71.93 miles

Site : TERRELL

Co-channel Users

KENT	182.32 miles
TAYLOR	155.97 miles
MASON	144.32 miles
DAWSON	144.44 miles
WINKLER	97.88 miles
COMANCHE	206.57 miles
EL PASO INTL AIRPORT	263.99 miles
SUTTON	56.39 miles
JEFF DAVIS	80.50 miles

Adjacent channel Users

MIDLAND INTL AIRPORT	97.09 miles

Site : TERRELL continued

Adjacent channel Users

SCHLEICHER	63.73 miles
KNOX	236.13 miles
STEPHENS	220.65 miles
MITCHELL	123.12 miles
EL PASO COUNTY	236.57 miles
JEFF DAVIS	80.50 miles
CONCHO	117.40 miles
THROCKMORTON	226.15 miles
GLASSCOCK	84.80 miles
PRESIDIO	96.06 miles
MIDLAND	83.66 miles

Site : PECOS

Co-channel Users

EL PASO COUNTY	168.58 miles
TOM GREEN	113.55 miles

Adjacent channel Users

EL PASO COUNTY	168.58 miles

Site : CROCKETT

Co-channel Users

SHACKELFORD	150.48 miles
BORDEN	114.95 miles
COKE	64.00 miles
MENARD	63.74 miles
LOVING	90.92 miles

Adjacent channel Users

STONEWALL	152.01 miles
MIDLAND	48.33 miles
BROWN	125.24 miles
ECTOR	50.38 miles
COLEMAN	99.90 miles
RUNNELS	77.55 miles
COKE	64.00 miles
MENARD	63.74 miles

Site : TOM GREEN

Co-channel Users

JONES	72.89 miles
HOWARD	71.49 miles
KIMBLE	71.93 miles
EL PASO COUNTY	342.06 miles
PECOS	113.55 miles
MIDLAND INTL AIRPORT	113.99 miles
SCHLEICHER	49.34 miles
KNOX	135.27 miles
STEPHENS	105.70 miles
MITCHELL	49.81 miles

Adjacent channel Users

ECTOR	124.01 miles
COLEMAN	43.24 miles
REAGAN	65.70 miles
GAINES	139.91 miles
TAYLOR	44.59 miles
KENT	102.56 miles
MASON	77.99 miles
DAWSON	112.83 miles
WINKLER	154.86 miles
COMANCHE	95.64 miles

5.6 REGION 50 ASSIGNMENT STATISTICS

Maximum field strength for co-channel operation is 5.00 Dbu

Maximum field strength for adj.-channel operation is 25.00 Dbu

Iterations required for solution = 1

Number of channels used for solution = 224

Total number of channels assigned = 151

Total number of unassigned channels = 119

Total number of reserved channels = 41

Total number of co-channels assigned = 86

Probability of interference with the nearest :

* Co-channel user is between 0 % and 1 % .
* Adj.-channel user is between 0 % and 1 % .

* Estimated assuming a 40 Dbu signal at the boundary.

5.7 EXPANSION OF INITIAL ALLOCATION

In the event that the allocation for any county becomes depleted, the Region Review Committee shall meet to make further allocations to said county. Should this occur, the applying agency or entity shall submit the proper license and coordination applications with all applicable fees, as in any other licensing request. Allocations will be made based on the initial frequency allocation plan as mentioned above, taking into consideration the channels which were returned to the reserve pool.

5.8 PRIORITIZATION OF APPLICANTS

A very simple method of prioritization has been chosen for use in this Region. As there is no unmet spectrum requirement, there appears to be no great need for prioritization. In order to facilitate future problems which may arise, the following rating system shall be used.

Prioritization shall be done according to a final score, based on applicant criteria. The highest score, in points, shall be given priority in a situation where spectrum is insufficient to fulfill the needs of all.

Public Safety Agencies	2 Points
Public Services Agencies	1 Point
Multi-agency Systems	2 Points
Multi-agency/Multi Jurisdiction Systems	3 Points
Single Agency/Jurisdiction Systems	1 Point
Agencies that give back Frequencies	1 Point

5.9 APPEAL PROCESS

At any time, any applicant may appeal an allocation, rejection, or any limits placed on a particular application for any reason. The appeal process has two levels; the Region 50 Review Committee, and the FCC. An applicant who decides to appeal a rejection should initiate that appeal immediately upon notification of rejection. In the event that an appeal reaches the FCC, their decision will be final and binding upon all parties.

6.0 THE REGION 50 PLANNING COMMITTEE

*B. John McDaniel, Region 50 Chairman
Sergeant, Communications Division
Midland County Sheriff's Department
P. O. Box 11287
Midland, Texas 79702
(915) 688-1228

*Dow Hestand, Region 50 Vice - Chairman (Deceased)
Communications Superintendent
City of Odessa
P. O. Box 4348
Odessa, Texas 79761
(915) 335-3275

*David E. Kathary
Communications Superintendent
State Department of Highways and Public Transportation
P. O. Box 10278
El Paso, Texas 79994
(915) 778-4254 ext. 202

*Dale Richardson
City of El Paso
Telecommunications Coordinator
#2 Civic Center Plaza
El Paso, Texas 79999-1919
(915) 541-4479

*G. A. Morgan
Communications Superintendent
State Department of Highways and Public Transportation
P. O. Box 1549
Brownwood, Texas 76804-1549
(915) 646-2591 ext. 204

*Pat Worsham
Communications Superintendent
State Department of Highways and Public Transportation
11th & Brazos Streets
Austin, Texas 78701-2483
(512) 465-7400

*Lloyd Christmas
Supervisor - Police Communications Facility
Texas Department of Public Safety
2405 South Loop 250 West
Midland, Texas 79703
(915) 697-2211

6.0 THE REGION 50 PLANNING COMMITTEE - continued

*Ray King
Regional Supervisor - Police Communications
Texas Department of Public Safety
2405 South Loop 250 West
Midland, Texas 79703
(915) 697-2211

*Milton Bennett
City of San Angelo
P. O. Box 1751
San Angelo, Texas 76902
(915) 657-4212

*John Bogart
Captain
Abilene Fire Department
3347 South 2nd Street
Abilene, Texas 79601
(915) 698-4155

*Beth Ann Broughton
Communications Supervisor
City of Midland
P. O. Box 1152
Midland, Texas 79702
(915) 688-1040

*Lee Ligon
Communications Technician
City of Midland
P. O. Box 1152
Midland, Texas 79702

*Ralph A. Englert
Assistant Chief
San Angelo Police Department
P. O. Box 5020
San Angelo, Texas 76902
(915) 657-4339

*Wayne Heinze
Purchasing Agent
San Angelo Police Department
P. O. Box 5020
San Angelo, Texas 76902
(915) 657-4327

6.0 THE REGION 50 PLANNING COMMITTEE - continued

*Jim Reynolds
Lieutenant
Midland Police Department
P. O. Box 1152
Midland, Texas 79702

*Richard Kleinhans, Recording Secretary
Criminal Justice Coordinator
Permian Basin Regional Planning Commission
P. O. Box 60660
Midland, Texas 79711
(915) 563-1061

*Mary Kozak, Shift Supervisor
El Paso Police Department
911 North Raynor
El Paso, Texas 79903
(915) 564-7361

*M. Dale Little
Fire Marshal
Midland County
P. O. Box 11287
Midland, Texas 79702
(915) 688-8915

*Paul Z. Gilbert
Firefighter/Paramedic
Snyder Volunteer Fire Department/Emergency Medical Service
210 38th Street
Snyder, Texas 79549
(915) 573-2163

*David Votaw
Communications Technician
Texas Department of Public Safety
2405 South Loop 250 West
Midland, Texas 79703
(915) 697-2211 ext. 232

*Henry Nevares
Communications Specialist
Texas Department of Health
1100 West 49th
Austin, Texas 78756
(512) 458-7550

6.0 THE REGION 50 PLANNING COMMITTEE (continued)

*Percy Green
Public Safety Coordinator
Rio Grande Council of Governments
123 Pioneer Plaza, Suite 210
El Paso, Texas 79901
(915) 533-0998

*Stewart Dickson
Criminal Justice Planner
Concho Valley Council of Governments
P. O. Box 60050
San Angelo, Texas 76906
(915) 944-9666

*David Burmeister
Dispatch Supervisor
San Angelo Fire Department
306 West 1st Street
San Angelo, Texas 76903
(915) 657-4357

*Richard Dolgener
Captain
Andrews County Sheriff's Department
Room 113, Courthouse
Andrews, Texas 79714
(915) 523-5545

*Gabriel Serna
Lieutenant, Communications
El Paso Police Department
911 North Raynor
El Paso, Texas 79903
(915) 564-6945

*Sotero G. Ramirez
Communications Supervisor
El Paso City - County Health District
222 South Campbell Street
El Paso, Texas 79901
(915) 541-4613

**Jake MacLeod
Business Manager
Western Communications
P. O. Box 347
San Angelo, Texas 76902
(915) 658-6515

6.0 THE REGION 50 PLANNING COMMITTEE (continued)

**Johnnie Halbrooks
Major Accounts Manager
General Electric
P. O. Box 16856
Lubbock, Texas 79490
(806) 793-0925

**Phil Garrett
Systems Sales Specialist
Motorola
3320 Belt Line Road
Dallas, Texas 75324
(214) 888-6878

**Ken Yoder
Frequency Advisor
Texas Department of Public Safety
P. O. Box 4087
Austin, Texas 78767
(512) 465-2104

**Charles O. Bowles, Region 40 Chairman
Supervisor - Retired
City of Dallas
3310 Matador
Garland, Texas 75042
(214) 276-7855

**Irving Skinner
Chairman, Region 29
New Mexico State Police
P. O. Box 5393
Santa Fe, New Mexico 87502
(505) 827-9364

**Don Brooks
Chairman, Region 53
City of San Antonio
Communications Division
P. O. Box 839966
San Antonio, Texas 78283-3966

**Walt Kelly
Chairman, Region 52
City of Amarillo
Emergency Management Department
P. O. Box 1971
Amarillo, Texas 79186

**Jeff Haislet
Chairman, Region 49
Brazos County 9-1-1 District
P. O. Box 2291
Bryan, Texas 77806-2291

* Members of Region 50 Public Safety Communications Advisory Committee

**Resource Members of Region 50 Public Safety Communications Advisory Committee

APPENDIX A

PROOF OF PUBLICATION FROM THE MIDLAND REPORTER-TELEGRAM FOR ADVERTISEMENT OF FIRST MEETING.

NOTICE OF FIRST PLANNING MEETING, AS SENT VIA THE TLETS STATE-WIDE COMPUTER SYSTEM.

LETTER TO REGION 50 PLANNING COMMITTEE MEMBERS REQUESTING ATTENDANCE AND PARTICIPATION IN THE REVIEW AND COMMITTEE APPROVAL OF THE REGIONAL PLAN.

50 LEGAL NOTICES

NOTICE TO BIDDERS

The Board of Trustees of the Midland Independent School District, Midland Texas is requesting bids on Digital Duplicators. Bid specifications and regulations may be secured from the Director of Purchasing, 8001 County Road 60 West, Midland Texas. Phone 689-6076.

NOTICE TO BIDDERS

The Board of Trustees of the Midland Independent School District, Midland Texas is requesting bids on Storage Additions. Bid specifications and regulations may be secured from the Director of Purchasing, 8001 County Road 60 West, Midland Texas. Phone 689-6076.

NOTICE TO BIDDERS

The Board of Trustees of the Midland Independent School District, Midland Texas is requesting bids on a Public Address System. Bid specifications and regulations may be secured from the Director of Purchasing, 8001 County Road 60 West, Midland Texas. Phone 689-6076.

PUBLIC NOTICE

Having been duly certified to the Federal Communications Commission (FCC) by the Associated Public Safety Communications Officers Inc. (APCO) as the Convenor of an initial meeting of representatives of parties eligible for radio licensing in the FCC's Public Safety and Special Emergency Radio Services to establish a Regional Planning Committee in the State of Texas in Region 30 as described hereinafter, I hereby give Public Notice that such an initial meeting will be held on May 10th 1989 at the Permian Basin Regional Planning Commission, 2514 Pliska Drive, Midland International Airport, Texas, beginning at 9:00 AM. This Region is one of 55 established by the FCC throughout the United States.

The responsibility of the Regional Planning Committee will be to develop a plan for use of frequencies in the 821-866 Megahertz bands allocated by the FCC for use by such licensees. Parties interested in participating in the regional planning process should contact ...

... in accordance with the FCC Report and Order in General Docket 87-112 adopted by the ... 1987.

...

30 LEGAL NOTICES

sory Committee, which was submitted to the FCC on September 9, 1987.

Copies of both the Report and Order and the Final Report of the National Public Safety Planning Advisory Committee, which was submitted to the FCC on September 9, 1987.

Copies of both the Report and Order and the Final Report are available from the FCC's duplication Contractor, International Transcription Services, Inc., Suite 140, 2100 M Street, NW, Washington, D.C. 20037. Phone (202) 857-3800.

March 12, 1989

110 LODGE NOTICES

MIDLAND Centennial Masonic Lodge #1448
1000 Upland street
Stated meetings 1st and 3rd Saturdays
Breakfast 7:30am
Open lodge 8:30am
Come Join Us!
Jerry Cowin, W.M.
H.S. Elliot, Secretary

The Midland Shrine Club 2019 Trade Drive 685-1790. Regular stated meeting third Thursday each month March 16th, 1989 Hospitality 6:30 pm Catered dinner 7 pm Business meeting 8 pm. All nobles and their ladies invited.
Russ Holmberg, President.
Sam Bradley, Secretary.

Keystone Chapter & Council R.A.M. & R.S.M. 1st Tues day of month 7:30 p.m. Midland Commandery #84 1st Thursday of month, 7:30 p.m. Practice Wednesday nights 7:30 p.m.

Midland Scottish Rite Association
Maundy Thursday Observance
Thursday March 20th
7:30 PM
Lodge Hall
1600 W. Wall

115 ANNOUNCEMENTS

★ OPENING FRIDAY, MARCH 10th ★

KEN'S PLACE

BREAKFAST • DINNER • SUPPER • LUNCHES TO GO •
• WINE • BEER • LIQUOR •
POOL • DOMINOES
LIVE MUSIC • DANCING • NO COVER

117 EAST WALL ST. 683-4536
next door to Wall St Bar & Grill

TONJA
JOANNE B.
PLEASE
COME HOME?!!
L. PALMER

110 LODGE NOTICES

Acacia Masonic Lodge #1414
1000 Upland
Stated Meetings
2nd & 4th Tuesday
7:30 pm
Ron Yeager, W.M.
T.H. Beaty, Secretary

Midland Lodge 623 AF & AM 1600 W Wall 682-3292
Regular stated meetings 2nd and 4th Thursday 7:30 pm
March 13th Floor School 7:30 pm
March 18th work in MM Degree 8 am
Tom Kongman, W.M.
R.G. Riker, Secretary

105 HAPPY ADS

FRONT Line dancers. Great gift for your wife, bachelorette or private party. 683-8208 or 697-5594

115 ANNOUNCEMENTS

NOW OPEN
THE SMOKE HOUSE
3607 S. HWY 349
Lunch 11-2 Dinner 5-9 Family style restaurant. Mesquite smoked barbecue, charcoal grill hamburgers to perfection!
Call 683-5809

EASTER BUNNY, EASTER CHICKEN costume rental. Reserve now. Call Costumes By Dorothy, 694-7687

115 ANNOUNCEMENTS

ERMA NORRIS
is working again at J.C. Penneys styling salon, inviting old & new customers to call for appointment.
699-6541

SPECIAL THANKS
To all friends & Acquaintances of the ELLEN HALL & GRIMES FAMILIES during the death of our mother.
"Thank you sincerely for sharing our sorrow.
Your kindness is deeply appreciated and will always be remembered."
Thank you with Love
The Ellen Hall & Grimes Families

130 PERSONALS

INTRODUCING Gail McCabe to Accent Beauty Salon. Specializing in perms, cuts and manicures. Call 682-8278. Walk-ins welcome.

ADOPTION: loving, educated, secure professional couple wants to share their warm family life and beautiful home with newborn. Expenses paid. Call Sheila and Mike collect evenings/weekends. 201-819-9725

HERBALIFE INDEPENDENT DISTRIBUTORS. CALL US FOR PRODUCTS. CALL HELEN AND DICK WHITMAN 685-1423

Adoption
ANSWER OUR PRAYERS
Financially secure loving couple with lots of TLC to give anxious to adopt caucasian baby. Med./Legal expenses pd. Call collect 201-632-7184

ADOPTION
Loving Southern California couple wishes to adopt newborn. Please call COLLECT 818-718-1957

LOOSE WEIGHT!
HAVE YOU HEARD Oprah Winfrey lost her weight on a protein sparing modified fast program. Unable to afford the expenses of clinical programs?
Call 689-6446
for an affordable alternative

130 PERSONALS

ADOPTION
Happily married, financially secure professional couple wishes to adopt your new born. Let us provide a ... happy home for your baby and help ... this difficult time easier for you. Legal, confidential.
Call collect, 212-473-7251

RETINOL A Cream $19.95. ... Unida, P.O. Box 14148, ... Texas 79760. 915-...

RESTHAVEN ...

LOOKING for ... work references. Can be contacted at 684-9444, ...

ADOPTION
Happily married, financially secure couple wants to adopt newborn. Will be full-time Mom. All expenses paid. Confidential and legal. Call collect anytime 413-367-...

RESTHAVEN Memorial Park, Garden of Good Shepherd, four spaces for sale. Price negotiable. Call 915-... 2614

VILLAGE
CAR WASH & AUTO CENTER
Professional Detail Center
SPECIAL FOR MARCH
Complete Detail
Reg. $130.00 NOW $80.00
Stop by today or call and make your appointment for your detail special to protect the interior, exterior and engine of your car.
"Where you get a superior job at an affordable price."
604 Andrews Hwy.
Call for your appointment
684-9485

130

... And

ONE F... 69
1
THE MODER...
A quality ... single. Personal ... matching ... and interests. ... ALWAYS ...
4410 N. Mid...

ADMINISTRATIVE MESSAGE FROM: MLSW TIME/DATE OF MESSAGE INPUT: 12:29 05/02/89.

TO ALL PUBLIC SAFETY AGENCIES INCLUDING LAW ENFORCEMENT, FIRE, EMS, SPECIAL EME
RGENCY, CIVIL DEFENSE AND ENTITY OPERATED RADIO REPAIR FACILITIES

HAVING BEEN DULY CERTIFIED TO THE FEDERAL COMMUNICATIONS COMMISSION (FCC) BY TH
E ASSOCIATED PUBLIC-SAFETY COMMUNICATIONS OFFICERS INC.(APCO), AS THE CONVENOR
OF AN INITIAL MEETING OF REPRESENTATIVES OF PARTIES ELIGIBLE FOR RADIO LICENSIN
G IN THE FCC'S PUBLIC SAFETY AND SPECIAL EMERGENCY RADIO SERVICES TO ESTABLISH
A REGIONAL PLANNING COMMITTEE IN THE STATE OF TEXAS, IN REGION 50 (IDENTICAL TO
DPS REGION 4), AS DESCRIBED HEREINAFTER, I HEREBY GIVE PUBLIC NOTICE THAT SUCH
AN INITIAL MEETING WILL BE HELD ON MAY 16TH, 1989, AT THE PERMIAN BASIN REGION
AL PLANNING COMMISSION, 2514 PLISKA DRIVE, ,IDLAND INTERNATIONAL AIRPORT, TEXAS
, BEGINNING AT 9:00 AM. THIS REGION IS ONE OF 55 ESTABLISHED BY THE FCC THROUGH
OUT THE UNITED STATES. THE RESPONSIBILITY OF THE REGIONAL PLANNING COMMITTEE WI
LL BE TO DEVELOP A PLAN FOR USE OF FREQUENCIES IN HTE 821 - 824 AND 866 - 869 M
EGAHERTZ BANDS ALLOCATED BY THE FCC FOR USE BY SUCH LICENSEES. PARTIES INTEREST
ED IN PARTICIPATING IN THE REGIONAL PLANNING PROCESS SHOULD CONTACT ME.
THIS PUBLIC NOTICE IS IN ACCORDANCE WITH THE FCC'S REPORT AND ORDER IN GENERAL
DOCKET #87-112, ADOPTED BY THE FCC ON DECEMBER 18, 1987.

SGT. B. JOHN MCDANIEL, CONVENOR
MIDLAND COUNTY SHERIFF'S DEPARTMENT
MIDLAND, TEXAS
(915) 688-1014

OUTPUT MSG 292, FROM MLSW 05/02/89 12:29

February 19, 1992

Sir;

Enclosed for your consideration is the completed Region 50 Public Safety Communications Plan. Please review this document and plan to attend the Regional Planning Committee meeting on March 17, 1992 at 9:00 AM CST.

This meeting will be held at:

Concho Valley Council of Governments
Southland Plaza
5014 Knickerbocker Road
San Angelo, Texas
(915) 944-9666

The purpose of this meeting is to review and comment on the Final Draft of the Region Fifty (50) 800 Megahertz Communications Plan.

Your input is requested for this plan before it is submitted to the Federal Communications Commission for acceptance.

B. John McDaniel
Chairman, Region 50
Midland County Sheriff's Department
P.O. Box 11287
Midland, Texas 79702
(915) 688-1228

APPENDIX B

LETTER TO CHAIRMEN OF REGIONAL PLANNING COMMITTEES CONTIGUOUS TO REGION 50 REQUESTING REVIEW AND APPROVAL OF THE REGION 50 PLAN.

NOTICE OF INTENT TO FILE AS SENT VIA THE TLETS STATE-WIDE TELECOMMUNICATIONS NETWORK.

February 18, 1992

Don Brooks
Region 53 Chairman
City of San Antonio
Communications Division
P.O. Box 839966
San Antonio, Texas 78283-3966

Charles O. Bowles
Region 40 Chairman
City of Dallas (Retired)
3310 Matador
Garland, Texas 75042

Jeff Haislet
Region 49 Chairman
Brazos County 9-1-1 District
P.O. Box 2291
Bryan, Texas 77806-2291

Irving Skinner
Chairman, Region 29
New Mexico State Police
P.O. Box 5393
Santa Fe, NM 87502

Ken Yoder
Frequency Coordination Advisor
Texas Department of Public Safety
P.O. Box 4087
Austin, Texas 78773-0025

Walt Kelly
Region 52 Chairman
City of Amarillo
Communications
P.O. Box 1971
Amarillo, Texas 79186

Sirs:

Enclosed is a copy of the Region 50 Plan. In compliance with the Federal Communications Commission guidelines, I would request your review and concurrence.

Spectrum was assigned using the APCO/CET packing pr in an effort to minimize interference between contiguous Regions. Consideration was given to border assignments development of this plan.

As part of this Region's Plan, I would prefer to include letters from the adjoining Region Chairman and the State Frequency Coordinator indicating their concurrence with this Plan. If I do not receive correspondence to the contrary by March 10, 1992, your concurrence will be assumed. Your assistance in these matters of mutual interest is appreciated.

B. John Daniel
Region Chairman
Midland County Sheriff's Department
Communications Division
P.O. Box
Midland 9709

ADMINISTRATIVE MESSAGE FROM: MLSW TIME/DATE OF MESSAGE INPUT: 16:58 02/06/92.

SO MIDLAND 020692
REGIONS 4,5 & 6
SPECIAL ATTENTION ALL PUBLIC SAFETY/PUBLIC SERVICE ENTITIES INCLUDED IN THE RIO GRANDE, CONCHO VALLEY, WEST CENTRAL TEXAS, AND PERMIAN BASIN COUNCIL OF GOVERNMENTS. THE COMMUNICATIONS PLAN FOR REGION 50 (WHICH INCLUDES THE ABOVE LISTED AREAS) WILL BE PRESENTED FOR FINAL ACCEPTANCE ON MARCH 17, 1992 AT 9:00 AM CST AT THE CONCHO VALLEY COUNCIL OF GOVERNMENTS, 5014 KNICKERBOCKER, SAN ANGELO. THE REGION 50 COMMUNICATIONS PLAN WILL BE REVIEWED AND SUBMITTED TO THE PLANNING COMMITTEE FOR APPROVAL. UPON THE PLANNING COMMITTEE'S ACCEPTANCE, THIS PLAN WILL BE SUBMITTED TO THE FCC. ALL INTERESTED PARTIES ARE ENCOURAGED TO ATTEND THIS MEETING.
SGT B. JOHN MCDANIEL, CHAIRMAN
REGION 50 PLANNING COMMITTEE
915-688-1228
SO MIDLAND BJM 021648
OUTPUT MSG 013, FROM MLSW 02/06/92 16:58

APPENDIX C

EXPLANATION OF CIRCLEIZING A GEOGRAPHIC AREA

EXPLANATION OF THE FREQUENCY SORT PROGRAM

COPY OF 47 CFR PART 90 SEC 90.601 AND 90.619 CONCERNING PRIVATE LAND MOBILE SERVICE USE OF THE BANDS 821-824 MHz AND 866-869 MHz ALONG THE COMMON BORDER

SHARING PRINCIPLES FOR THE USE OF THE FIVE PUBLIC SAFETY MUTUAL AID CHANNEL PAIRS ON BOTH SIDES OF THE COMMON BORDER

LETTER FROM STATE FREQUENCY COORDINATOR CONCERNING REQUIRED NATIONAL CALLING FREQUENCIES AND STATEWIDE CHANNELS FOR STATE AGENCIES

Circleizing the Geographic Area

In order to define the geographic area for frequency sort, the individual counties, sub-regions, and regions are defined with circles. The circles defining an area must all have the same radius and must not exceed the boundary of the area by more than three miles. The number of circles used to define an area does not have any bearing on the number of channels assigned. The circles used to define the area for the frequency sort program do not represent the location of actual sites within the area. The circleization of the geographic area is used only to define the individual areas within a Region for the frequency sort program.

THE FREQUENCY SORT PROGRAM

R. FLEISSNER

4/4/89

REVISED 4/11/89

Introduction

It must be understood that the Regional Plan must be frequency specific throughout the entire region. Note that it doesn't matter whether or not there are any known eligibles in a specific place at the time the plan is generated.

The task to be accomplished is to preassign specific radio frequencies to both known eligibles and geographic pools for future assignments in an efficient manner, as well as in a compatible manner from an interference standpoint.

It has been determined that a Region can be subdivided into sub-regions equal to or smaller than counties for the purpose of sorting frequencies.

It has also been determined that a ratio of one radio channel per 25,000 people is acceptable for public safety services communications needs. As a minimum, any county would require a minimum number of channels, say two channels. For example, a county with a projected population of 247,000 people would be eligible for 9.88 channels, which would be reounded up to 10 channels. A county of less than 50,000 would always get 2 channels.

If there were one or more known eligibles at the time of the plan within that county, their channel needs would be subtracted from the county pool of channels, leaving a lesser number of, or zero, channels available within the county for future assignment. For instance, if the example county had known eligibles who justified assignment of 6 channels, then the county pool would be reduced to four channels. On the

other hand, if known eligibles had justified need for 10 or more channels, then there would be zero channels in the county pool for future assignment.

Before beginning the process of preparing the information to be entered into the computer program for sorting the frequencies in a spectrum efficient manner, one needs to consider the following.

1) Remember that the task being done is a geographic sort of frequencies, NOT A SYSTEM DESIGN. Therefore, the coordinates and range data tabulated should describe the geography and not necessarily be actual user antenna sites.

2) Where there are known eligibles in a county, the known eligibles are to be considered first, to the exclusion, if necessary, of county pools for future assignment.

3) Where there are no known eligibles in a county, a county pool is to be established from which future assignments will be drawn.

4) The number of channels to be allocated to county pools should be related to the population of the county, with every county receiving a minimum number of frequencies.

Protection Ratios:

There are two protection ratios built into the computer program. One is for the co-channel case, and the other is for the adjacent channel case. The default ratios provide 35db Desired/Undesired signal ratio for co-channel assignments, and 15db Desired/Undesired ratio for the adjacent channel case. These ratios should provide a probability of interference of less then 1%. It is strongly suggested that these values be used. However, they are adjustable in the program on a global basis, but NOT on a per system basis.

Transmitter Combining:

The computer program is designed to provide a minimum frequency separation between any two channels assigned to the same eligible at the same site. This separation is provided in order to enable more efficient combining of multiple transmitters to a single antenna. These separated blocks of frequencies also have a maximum size. That is to say, if the eligible has more frequencies then the maximum size of the combining block, then a new compatible block is created.

Each of these parameters is adjustable in the program on a global basis. The default parameters are 0.25MHz minimum spacing and five channel blocks. These seem reasonable and are strongly recommended.

Special Considerations!

There are a number of existing licensees in the 806-821/851-866 MHz spectrum who plan to expand existing systems into the 821-824/866-869 MHz band. Existing radio units are unable to operate on 12.5KHz separated carrier frequencies. That is to say, the synthesizers can only generate frequencies every 25KHz. The result is that these radios can only operate on "even" FCC numbered channels in the 821-824/866-869 MHz band. The computer program is able to take this into account when making assignments. Therefore, the need to implement this restriction becomes a necessary part of the input data.

At the risk of confusing the reader, it must be pointed out that if the existing 806-821 MHz radios are operating on off-sets (as authorized in proximity to the Mexican border in Southern California), then the 821-824 MHz channels assigned must be "odd" FCC channel numbers.

How to define Geography

For the purpose of this frequency sort, a geographic area is to be defined as one or more circles of equal radius. To the degree practical, this circle or circles should include the entire area of the eligible's geopolitical boundary, but not exceed the boundary by more than three miles. Note, that if more than one circle is used to define an area, all of these circles must be of equal radius. This is a restriction of the computer program. The largest circle radius acceptable is 25 miles.

So, the procedure is to gather maps of sufficient detail, outline the areas to be defined, determine the co-ordinates and radius of the circles which define each area, and tabulate the data. It is recommended that 2 degree maps be used for this purpose.

Blocked Channels

In each region there will be at least the five national mutual aid channels which must be blocked out to prevent the computer from making assignments on those channels. In addition, large region-wide systems must be identified for the same reason. In this case, one must also consider whether or not the adjacent channels to these region wide assignments must also be blocked. Since the mutual aid channels are spaced at 0.5 MHz intervals, it is recommended that these region-wide systems also be spaced at 0.5 MHz and placed adjacent to the mutual aid channels. This procedure reduces the impact of blocked adjacent channels by virtue of the fact that the channel plan already has protection spacing on each side of the mutual aid channels.

Define The Environment

In your best judgement, is the county to be considered urban, suburban, open or quasi-open? Use the following indicators:

1 = Urban

2 = Suburban

3 = Open

4 = Quasi Open

1-Urban is a built-up city crowded with large buildings or closely interspersed with houses and thickly-grown trees. This would include the downtown area of a major city.

2-Suburban is a city or highway scattered with trees, houses and buildings. This would include the non-downtown area of a major city.

3-Open is an area where there are no obstacles such as tall trees or buildings in the propagation path or a plot of land which is cleared of anything for 300-400 meters ahead. This would include farm land, open fields, etc.

4-Quasi-open is an area between suburban and open areas. This includes areas outside of city limits that have few buildings and houses.

Number of Channels to be assigned

The number of channels to be assigned to each eligible, whether a known entity or a pool for future assignment, will be determined by other procedures in the Regional Plan. Therefore, it merely becomes a piece of input data in the assignment program.

Who is to receive channel assignments?

The eligibles who are to receive channels is a list determined by other procedures in the Regional Plan. Therefore, the list is just a list to be used as input to identify the eligibles.

What the Program Does

1. Input data for the Region (single site systems first)
   -Name (entity-county)
   -Co-ordinates
   -Range
   -Environment
   -Blocked/Protected Channels
   -Even/odd channel requirements

2. Select parameters
   -Combiner spacing
   -Maximum spectrum to be used
   -Number of Iterations allowed
   -Protection Ratios for co-channel and adjacent channels

3. Computer determines an ERP/Ant. Height combination which places the 40dbu point at the range specified, in the environment specified for each system.

4. Computer calculates distances between all possible combinations of single site and multiple site systems.

5. The computer uses its input tables to determine compatible assignments such that the signal strength at a co-channel assignees boundary is < + 5 dbu, and the signal strength at an adjacent channel assignees boundary is < + 25 dbu.

6. If the maximum spectrum allowed is filled before all systems are assigned channels, then the list is re-ordered according to the difficulty of assignments, and another iteration is made.

7. If the maximum number of iterations is reached before all assignments are satisfied, the maximum spectrum allowed is increased and the process begins again. The maximum spectrum allowed is initially set at a value which will fail to find a solution. By incrementing its value on successive attempts, the first successful run should be the most spectrum efficient case this program will ever find.

8. In the event that the spectrum needed exceeds the FCC allocations, to get a solution the following adjustments can be made.
   -Number of assignments must be reduced
   -System ranges must be reduced
   -Protection ratios must be reduced
   -Number of iterations must be increased
   -Combinations of the above

Output Reports

1) Input Data For Assignment Program
   -Data input from Region.
   -Adds ERP and Antenna Height determined by the computer
   -needs to be checked for accuracy

2) FCC Channel Assignments
   -Assignments ordered by channel number
   -This list will eventually go to the FCC

3) Sites and Assigned Channels
   -Ordered by Site (User)
   -FCC channels within site in numerical order
   -useful for checking combining assignments
   -useful for checking even/odd assignments

4) Detailed Assignment lists
   -a very useful tool for trouble shooting the computer output

Format for Transmitting Information to Computer

A standardized format for transmitting the necessary infomation to the computer program would look like this:

A list of pre-assigned region wide channels and channels reserved for protection must also be supplied.

Blocked Channels

In each region there will be at least the five national mutual aid channels which must be blocked out to prevent the computer from making assignments on those channels. In addition, large region-wide systems must be identified for the same reason. In this case, one must also consider whether or not the adjacent channels to these region wide assignments must also be blocked. Since the mutual aid channels are spaced at 0.5 MHz intervals, it is recommended that these region-wide systems also be spaced at 0.5 MHz and placed adjacent to the mutual aid channels. This procedure reduces the impact of blocked adjacent channels by virtue of the fact that the channel plan already has protection spacing on each side of the mutual aid channels.

Define The Environment

In your best judgement, is the county to be considered urban, suburban, open or quasi-open? Use the following indicators:

1 = Urban

2 = Suburban

3 = Quasi Open

4 = Open

1-Urban is a built-up city crowded with large buildings or closely interspersed with houses and thickly-grown trees. This would include the downtown area of a major city.

2-Suburban is a city or highway scattered with trees, houses and buildings. This would include the non-downtown area of a major city.

3-Quasi-open is an area between suburban and open areas. This includes areas outside of city limits that have few buildings and houses.

4-Open is an area where there are no obstacles such as tall trees or buildings in the propagation path or a plot of land which is cleared of anything for 300-400 meters ahead. This would include farm land, open fields, etc.

Number of Channels to be assigned

The number of channels to be assigned to each eligible, whether a known entity or a pool for future assignment, will be determined by other procedures in the Regional Plan. Therefore, it merely becomes a piece of input data in the assignment program.

Who is to receive channel assignments?

The eligibles who are to receive channels is a list determined by other procedures in the Regional Plan. Therefore, the list is just a list to be used as input to identify the eligibles.

What the Program Does

1. Input data for the Region (single site systems first)
   -Name (entity-county)
   -Co-ordinates
   -Range
   -Environment
   -Blocked/Protected Channels
   -Even/odd channel requirements

2. Select parameters
   -Combiner spacing
   -Maximum spectrum to be used
   -Number of iterations allowed
   -Protection Ratios for co-channel and adjacent channels

3. Computer determines an ERP/Ant. Height combination which places the 40dbu point at the range specified, in the environment specified for each system.

4. Computer calculates distances between all possible combinations of single site and multiple site systems.

5. The computer uses its input tables to determine compatible assignments such that the signal strength at a co-channel assignees boundary is < + 5 dbu, and the signal strength at an adjacent channel assignees boundary is < + 25 dbu.

6. If the maximum spectrum allowed is filled before all systems are assigned channels, then the list is re-ordered according to the difficulty of assignments, and another iteration is made.

7. If the maximum number of iterations is reached before all assignments are satisfied, the maximum spectrum allowed is increased and the process begins again. The maximum spectrum allowed is initially set at a value which will fail to find a solution. By incrementing its value on successive attempts, the first successful run should be the most spectrum efficient case this program will ever find.

8. In the event that the spectrum needed exceeds the FCC allocations, to get a solution the following adjustments can be made.
   -Number of assignments must be reduced
   -System ranges must be reduced
   -Protection ratios must be reduced
   -Number of iterations must be increased
   -Combinations of the above

Output Reports

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4) Detailed Assignment lists

-a very useful tool for trouble shooting the computer output

Format for Transmitting Information to Computer

A standardized format for transmitting the necessary infomation to the computer program would look like this:

A list of pre-assigned region wide channels and channels reserved for protection must also be supplied.

Before the
Federal Communications Commission
Washington, D.C. 20554

In the Matter of

Amendment of Subpart S of
Part 90 of the Rules to
Permit Licensing of Channels
in the 821-824/866-869 MHz Bands in
the U.S.-Mexico Border Area

ORDER

Adopted: July 31, 1991; Released: August 9, 1991

By the Chief, Private Radio Bureau:

1. On July 24, 1986, the Commission allocated six megahertz of spectrum in the 821-824 MHz and 866-869 MHz bands for use exclusively in the Public Safety and Special Emergency Radio Services.[1] The Commission delineated service rules for these six megahertz of spectrum in a subsequent *Report and Order*.[2] That *Report and Order*, however, did not provide for use of the 821-824/866-869 MHz bands within 110 km (68.4 miles) of the Mexican border, pending agreement with Mexico.

2. On July 2, 1991, the Federal Communications Commission of the United States of America and the Direccion General De Politicas Y Normas De Comunicaciones of the United Mexican States signed a Memorandum of Understanding (MOU) that governs use of the 821-824/866-869 MHz bands within 110 km (68.4 miles) of the U.S.-Mexican border. The MOU specifies the channels that will be available for licensing by each administration within the border area. This *Order* modifies Subpart S of Part 90, 47 C.F.R. Part 90, to conform the Rules to the MOU and to permit licensing of radio systems in the Mexican border area.

3. The 821-824/866-869 MHz Public Safety channels are available for licensing in the Mexican border zone on publication of this *Order* in the Federal Register. Such licensing must conform with Regional Public Safety Plans that have been accepted by the Commission.

4. These rule changes will facilitate the construction of additional Private Land Mobile Radio stations in the Mexican border area. This should result in improved mobile communication service to the public safety community without adversely affecting any party. As this *Order* does not impose new rules on licensees that would adversely affect their substantive rights, we find that notice and comment procedures are neither necessary nor appropriate.[3] To initiate a notice and comment procedure to make these additional channels available for licensing in the Mexican border area would significantly delay the use of these channels without any countervailing public interest benefit. Further, because the rule changes relieve a restriction, we also conclude that these changes should become effective immediately upon publication in the Federal Register.[4]

5. Therefore, effective upon publication in the Federal Register, Part 90 of the Commission's Rules is amended as indicated in the Appendix below. This is based on authority contained in Sections 4(i) and 303 of the Communications Act, as amended, 47 U.S.C. §§ 154(i) and 303, Section 0.331(a)(1) of the Commission's Rules, 47 C.F.R. § 0.331(a)(1), and 5 U.S.C. §§ 553(b)(3)(B) and (d)(1).

FEDERAL COMMUNICATIONS COMMISSION

Ralph A. Haller
Chief, Private Radio Bureau

APPENDIX

Part 90 of Chapter 1 of Title 47 of the Code of Federal Regulations is amended as follows:

PART 90 - PRIVATE LAND MOBILE RADIO SERVICES

1. The authority citation for Part 90 continues to read as follows:

Authority: Sections 4, 303, 331, 48 Stat., as amended, 1066, 1082; 47 U.S.C. 154, 303, and 332, unless otherwise noted.

2. Section 90.601 is revised to read as follows:

Subpart S - Regulations Governing Licensing and Use of Frequencies in the 806-824, 851-869, 896-901, and 935-940 MHz Bands

§ 90.601 Scope.

This subpart sets out the regulations governing the licensing and operations of all systems operating in the 806-824/851-869 MHz and 896-901/935-940 MHz bands. It includes eligibility requirements, application procedures, operational, and technical standards for stations licensed in these bands. The rules in this subpart are to be read in conjunction with the applicable requirements contained elsewhere in this part; however, in case of conflict, the provisions of this subpart shall govern with respect to licensing and operation in these frequency bands.

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[1] Report and Order, Gen. Docket Nos. 84-1231, 84-1233, and 84-1234, 61 RR2d 165 (1986).

[2] In the Matter of Development and Implementation of a Public Safety National Plan and Amendment of Part 90 to Establish Service Rules and Technical Standards for Use of the 821-824/866-869 MHz Bands by the Public Safety Services, Report and Order, Gen. Docket No. 87-112, 3 FCC Rcd 905 (1988).

[3] *See* 5 U.S.C. § 553(b)(3)(B).

[4] *See* 5 U.S.C. § 553(d)(1).

3. Section 90.619 is amended by revising paragraphs (a), and (a)(1), redesignating paragraphs (a)(2), (a)(3) and (a)(4) as paragraphs (a)(3), (a)(4) and (a)(5), respectively, adding new paragraph (a)(2), revising the title and caption for Table 1, and adding new Tables 1B, and 1C, to read as follows:

§ 90.619 Frequencies available for use in the U.S./Mexico and U.S./Canada border areas.

(a) U.S./Mexico border area. The channels listed in Tables 1A, 2, 3, and 4 are offset 12.5 kHz lower in frequency than those specified in § 90.613. The Channel 201 mobile frequency will be 811.000 MHz, followed by Channel 202 at 811.025 MHz and proceeding with uniform 25 kHz channeling to Channel 400 at 815.975 MHz. Base station frequencies will be 45 MHz higher in frequency. These channels are available for assignment for conventional or trunked systems only in areas 110 kilometers (68.4 miles) or less from the U.S./Mexico border. Stations located on Mt. Lemmon, serving the Tucson, AZ area, shall only be authorized offset frequencies.

(1) Table 1A lists the channels in the 806-821/851-866 MHz band that are available for assignment to eligible applicants in the Public Safety Category (consisting of the Local Government, Police, Fire, Highway Maintenance, Forestry-Conservation, and Special Emergency Radio Services). Specialized Mobile Radio Systems (SMRS) will not be authorized in this category. These channels are available for intercategory sharing as indicated in § 90.621(g).

Table 1A - United States/Mexico Border Area, Public Safety Category 806-821/851-866 MHz Band (85 Channels):

* * * * *

(2) Certain channels in the 821-824/866-869 MHz band are also available to eligible applicants in the Public Safety Category in areas within 110 kilometers (68.4 miles) of the U.S./Mexican border. These channels will be assigned according to the policies defined in the Report and Order of Gen. Docket No. 87-112 (See §§ 90.16 and 90.34). The following channels are available only for mutual aid purposes as defined in Gen. Docket No. 87-112: channels 601, 639, 677, 715, and 753. The specific channels that are available for licensing in this band within 110 kilometers (68.4 miles) of the Mexican border are listed in Table 1B, and are subject to Effective Radiated Power (ERP) and Antenna Height limitations as indicated in Table 1C. In addition, all channels designated for use within Mexico in this band are available for assignment within 110 kilometers (68.4 miles) of the Mexican border if the maximum power flux density (PFD) of the station's transmitted signal at any point at or beyond the border does not exceed -107 dBW/m^2. The spreading loss shall be calculated using the free space formula taking into account any antenna discrimination in the direction of the border. Authorizations for stations using channels allotted primarily to Mexico will be secondary to Mexican operations and conditioned to require that licensees take immediate action to eliminate any harmful interference resulting from the station's transmitted signal exceeding -107 dBW/m^2.

Table 1B - United States/Mexico Border Area, Public Safety Category 821-824/866-869 MHz Band (107 Channels):

Channel	Base Frequency	Mobile Frequency	Country
601	866.0125	821.0125	Both Countries
***	866.0250	821.0250	Not Available
602	866.0375	821.0375	U.S.
603	866.0500	821.0500	U.S.
604	866.0625	821.0625	U.S.
605	866.0750	821.0750	U.S.
606	866.0875	821.0875	U.S
607	866.1000	821.1000	U.S
608	866.1125	821.1125	U.S
609	866.1250	821.1250	U.S.
610	866.1375	821.1375	U.S.
611	866.1500	821.1500	Guard Channel
612	866.1625	821.1625	MEXICO
613	866.1750	821.1750	MEXICO
614	866.1875	821.1875	MEXICO
615	866.2000	821.2000	MEXICO
616	866.2125	821.2125	MEXICO
617	866.2250	821.2250	MEXICO
618	866.2375	821.2375	MEXICO
619	866.2500	821.2500	MEXICO
620	866.2625	821.2625	MEXICO
621	866.2750	821.2750	MEXICO
622	866.2875	821.2875	MEXICO
623	866.3000	821.3000	MEXICO
624	866.3125	821.3125	MEXICO
625	866.3250	821.3250	MEXICO
626	866.3375	821.3375	MEXICO
627	866.3500	821.3500	MEXICO
628	866.3625	821.3625	MEXICO
629	866.3750	821.3750	Guard Channel
630	866.3875	821.3875	U.S.
631	866.4000	821.4000	U.S.
632	866.4125	821.4125	U.S.
633	866.4250	821.4250	U.S.
634	866.4375	821.4375	U.S.
635	866.4500	821.4500	U.S.
636	866.4625	821.4625	U.S.
637	866.4750	821.4750	U.S.
638	866.4875	821.4875	U.S.
***	866.5000	821.5000	Not Available
639	866.5125	821.5125	Both Countries
***	866.5250	821.5250	Not Available
640	866.5375	821.5375	U.S.
641	866.5500	821.5500	U.S.
642	866.5625	821.5625	U.S.
643	866.5750	821.5750	U.S.

Channel	Base Frequency	Mobile Frequency	Country
644	866.5875	821.5875	U.S.
645	866.6000	821.6000	U.S.
646	866.6125	821.6125	U.S.
647	866.6250	821.6250	U.S.
648	866.6375	821.6375	U.S.
649	866.6500	821.6500	Guard Channel
650	866.6625	821.6625	MEXICO
651	866.6750	821.6750	MEXICO
652	866.6875	821.6875	MEXICO
653	866.7000	821.7000	MEXICO
654	866.7125	821.7125	MEXICO
655	866.7250	821.7250	MEXICO
656	866.7375	821.7375	MEXICO
657	866.7500	821.7500	MEXICO
658	866.7625	821.7625	MEXICO
659	866.7750	821.7750	MEXICO
660	866.7875	821.7875	MEXICO
661	866.8000	821.8000	MEXICO
662	866.8125	821.8125	MEXICO
663	866.8250	821.8250	MEXICO
664	866.8375	821.8375	MEXICO
665	866.8500	821.8500	MEXICO
666	866.8625	821.8625	MEXICO
667	866.8750	821.8750	Guard Channel
668	866.8875	821.8875	U.S.
669	866.9000	821.9000	U.S.
670	866.9125	821.9125	U.S.
671	866.9250	821.9250	U.S.
672	866.9375	821.9375	U.S.
673	866.9500	821.9500	U.S.
674	866.9625	821.9625	U.S.
675	866.9750	821.9750	U.S.
676	866.9875	821.9875	U.S.
***	867.0000	822.0000	Not Available
677	867.0125	822.0125	Both Countries
***	867.0250	822.0250	Not Available
678	867.0375	822.0375	U.S.
679	867.0500	822.0500	U.S.
680	867.0625	822.0625	U.S.
681	867.0750	822.0750	U.S.
682	867.0875	822.0875	U.S.
683	867.1000	822.1000	U.S.
684	867.1125	822.1125	U.S.
685	867.1250	822.1250	U.S.
686	867.1375	822.1375	U.S.
687	867.1500	822.1500	Guard Channel
688	867.1625	822.1625	MEXICO
689	867.1750	822.1750	MEXICO
690	867.1875	822.1875	MEXICO
691	867.2000	822.2000	MEXICO
692	867.2125	822.2125	MEXICO

Channel	Base Frequency	Mobile Frequency	Country
693	867.2250	822.2250	MEXICO
694	867.2375	822.2375	MEXICO
695	867.2500	822.2500	MEXICO
696	867.2625	822.2625	MEXICO
697	867.2750	822.2750	MEXICO
698	867.2875	822.2875	MEXICO
699	867.3000	822.3000	MEXICO
700	867.3125	822.3125	MEXICO
701	867.3250	822.3250	MEXICO
702	867.3375	822.3375	MEXICO
703	867.3500	822.3500	MEXICO
704	867.3625	822.3625	MEXICO
705	867.3750	822.3750	Guard Channel
706	867.3875	822.3875	U.S.
707	867.4000	822.4000	U.S.
708	867.4125	822.4125	U.S.
709	867.4250	822.4250	U.S.
710	867.4375	822.4375	U.S.
711	867.4500	822.4500	U.S.
712	867.4625	822.4625	U.S.
713	867.4750	822.4750	U.S.
714	867.4875	822.4875	U.S.
***	867.5000	822.5000	Not Available
715	867.5125	822.5125	Both Countries
***	867.5250	822.5250	Not Available
716	867.5375	822.5375	U.S.
717	867.5500	822.5500	U.S.
718	867.5625	822.5625	U.S.
719	867.5750	822.5750	U.S.
720	867.5875	822.5875	U.S.
721	867.6000	822.6000	U.S.
722	867.6125	822.6125	U.S.
723	867.6250	822.6250	U.S.
724	867.6375	822.6375	U.S.
725	867.6500	822.6500	Guard Channel
726	867.6625	822.6625	MEXICO
727	867.6750	822.6750	MEXICO
728	867.6875	822.6875	MEXICO
729	867.7000	822.7000	MEXICO
730	867.7125	822.7125	MEXICO
731	867.7250	822.7250	MEXICO
732	867.7375	822.7375	MEXICO
733	867.7500	822.7500	MEXICO
734	867.7625	822.7625	MEXICO
735	867.7750	822.7750	MEXICO
736	867.7875	822.7875	MEXICO
737	867.8000	822.8000	MEXICO
738	867.8125	822.8125	MEXICO
739	867.8250	822.8250	MEXICO
740	867.8375	822.8375	MEXICO
741	867.8500	822.8500	MEXICO

Channel	Base Frequency	Mobile Frequency	Country
742	867.8625	822.8625	Guard Channel
743	867.8750	822.8750	U.S.
744	867.8875	822.8875	U.S.
745	867.9000	822.9000	U.S.
746	867.9125	822.9125	U.S.
747	867.9250	822.9250	U.S.
748	867.9375	822.9375	U.S.
749	867.9500	822.9500	U.S.
750	867.9625	822.9625	U.S.
751	867.9750	822.9750	U.S.
752	867.9875	822.9875	U.S.
***	868.0000	823.0000	Not Available
753	868.0125	823.0125	Both Countries
***	868.0250	823.0250	Not Available
754	868.0375	823.0375	U.S.
755	868.0500	823.0500	U.S.
756	868.0625	823.0625	U.S.
757	868.0750	823.0750	U.S.
758	868.0875	823.0875	U.S.
759	868.1000	823.1000	U.S.
760	868.1125	823.1125	U.S.
761	868.1250	823.1250	U.S.
762	868.1375	823.1375	U.S.
763	868.1500	823.1500	Guard Channel
764	868.1625	823.1625	MEXICO
765	868.1750	823.1750	MEXICO
766	868.1875	823.1875	MEXICO
767	868.2000	823.2000	MEXICO
768	868.2125	823.2125	MEXICO
769	868.2250	823.2250	MEXICO
770	868.2375	823.2375	MEXICO
771	868.2500	823.2500	MEXICO
772	868.2625	823.2625	MEXICO
773	868.2750	823.2750	MEXICO
774	868.2875	823.2875	MEXICO
775	868.3000	823.3000	MEXICO
776	868.3125	823.3125	MEXICO
777	868.3250	823.3250	MEXICO
778	868.3375	823.3375	MEXICO
779	868.3500	823.3500	MEXICO
780	868.3625	823.3625	Guard Channel
781	868.3750	823.3750	U.S.
782	868.3875	823.3875	U.S.
783	868.4000	823.4000	U.S.
784	868.4125	823.4125	U.S.
785	868.4250	823.4250	U.S.
786	868.4375	823.4375	U.S.
787	868.4500	823.4500	U.S.
788	868.4625	823.4625	U.S.
789	868.4750	823.4750	U.S.
790	868.4875	823.4875	U.S.

Channel	Base Frequency	Mobile Frequency	Country
791	868.5000	823.5000	U.S.
792	868.5125	823.5125	U.S.
793	868.5250	823.5250	U,S.
794	868.5375	823.5375	U.S.
795	868.5500	823.5500	U.S.
796	868.5625	823.5625	U.S.
797	868.5750	823.5750	U.S.
798	868.5875	823.5875	U.S.
799	868.6000	823.6000	U.S.
800	868.6125	823.6125	Guard Channel
801	868.6250	823.6250	MEXICO
802	868.6375	823.6375	MEXICO
803	868.6500	823.6500	MEXICO
804	868.6625	823.6625	MEXICO
805	868.6750	823.6750	MEXICO
806	868.6875	823.6875	MEXICO
807	868.7000	823.7000	MEXICO
808	868.7125	823.7125	MEXICO
809	868.7250	823.7250	MEXICO
810	868.7375	823.7375	MEXICO
811	868.7500	823.7500	MEXICO
812	868.7625	823.7625	MEXICO
813	868.7750	823.7750	MEXICO
814	868.7875	823.7875	MEXICO
815	868.8000	823.8000	MEXICO
816	868.8125	823.8125	MEXICO
817	868.8250	823.8250	MEXICO
818	868.8375	823.8375	MEXICO
819	868.8500	823.8500	MEXICO
820	868.8625	823.8625	MEXICO
821	868.8750	823.8750	MEXICO
822	868.8875	823.8875	MEXICO
823	868.9000	823.9000	MEXICO
824	868.9125	823.9125	Guard Channel
825	868.9250	823.9250	U.S.
826	868.9375	823.9375	U.S.
827	868.9500	823.9500	U.S.
828	868.9625	823.9625	U.S.
829	868.9750	823.9750	U.S.
830	868.9875	823.9875	U.S.

Table 1C - Limits of Effective Radiated Power (ERP) Corresponding to Antenna Heights of Base Stations in the 821-824/866-869 MHz Band within 110 kilometers (68.4 miles) of the Mexican Border

Antenna Height Above Mean Sea Level		ERP
Meters	Feet	Watts (maximum)
0 - 503	0 - 1650	500
504 - 609	1651 - 2000	350
610 - 762	2001 - 2500	200
763 - 914	2501 - 3000	140
915 - 1066	3001 - 3500	100
1067 - 1219	3501 - 4000	75
1220 - 1371	4001 - 4500	70
1372 - 1523	4501 - 5000	65
Above 1523	Above 5000	5

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ANNEX B

SHARING PRINCIPLES

This annex describes the sharing principles for the use of the five public safety mutual aid channel pairs on both sides of the common border.

1. The following channels will be used as public safety mutual aid channels:

Mobile	Base
821.0125 MHz calling	866.0125 MHz calling
821.5125 MHz	866.5125 MHz
822.0125 MHz	867.0125 MHz
822.5125 MHz	867.5125 MHz
823.0125 MHz	868.0125 MHz

2. All equipment capable of operating on the mutual aid channels must be equipped with the tone squelch of 156.7 Hz.

3. The channels shall be 25 kHz wide.

4. Within 110 kilometers of the common border, neither Party shall assign frequencies closer than 25 kHz to any of the mutual aid channels.

5. The mutual aid channels are available on a shared basis to duly authorized public safety agencies on both sides of the border. Users must first monitor the frequency before transmitting to ensure that any on-going emergency communications are not interrupted.

6. The mutual aid channels are to be used only for coordination of tactical communications between different public safety agencies, or for other similar emergency situations. They must not be used for administrative or other routine communications.

7. When the Parties designate regions along the border, they will designate and exchange local points of contact in the corresponding regions to facilitate the coordination of base stations established to provide mutual aid capabilities across the border.

8. Requests for aid across the border should first be made on the calling channel 821.0125/866.0125 MHz.

9. Regions that operate on these mutual aid channels shall designate agencies to monitor the calling channel on a 24 hour basis every day of the year.

10. The points of contact in adjoining regions across the border shall participate in the cooperative establishment of priorities in the case of multiple emergencies requiring use of the channels according to the following general priorities:

Priority A: Large scale disaster and emergency situations involving imminent danger to the safety of the public at large (e.g., earthquakes, large chemical spills).

Priority B: Other emergency situations involving imminent danger to the safety of life or property.

Priority C: Special event control activities, generally of a pre-planned nature, and requiring coordination of two or more agencies.

Priority D: Drill, test, and exercises of civil defense or disaster response procedures.

Whenever the use of a higher priority is required, all lower priority operations must cease in any area where interference to the use of a higher priority could occur.

Texas Chapter Associated Public-Safety Communications Officers

It's a ... Idea ... APCO

INC.

Frequency Coordination Advisor
Kenneth C. Yoder
Box 4087-5805 N. Lamar Blvd.
Austin, TX 78773-0025
(512) 465-2104
(512) 465-2899 FAX

Alternate Advisor
Joe Blair
Dallas/Fort Worth Airport
P. O. Drawer DFW
Dallas/Fort Worth Airport, TX 75261
(214) 574-6642
(214) 574-3128 FAX

TO WHOM IT MAY CONCERN

Protected Channels for 821 MHz Region Plans

The following frequencies are listed as the National Calling Channels and are to be placed into each and every plan. There should be a frequency blocked on each side of these frequencies for protection:

Channel	Frequency
601	866.0125
639	866.5125
677	867.0125
715	867.5125
753	868.0125

The following frequencies are requested for Statewide Channels for State Agencies:

Channel	Frequency	Channel	Frequency
602	866.0375	712 **	867.4625
604 *	866.0625	714	867.4875
636 **	866.4625	716	867.5375
638	866.4875	718 *	867.5625
640	866.5375	750 **	867.9625
642 *	866.5625	752	867.9875
674 **	866.9625	754	868.0375
676	866.9875	756 *	868.0625
678	867.0375	826	868.9375
680 *	867.0625	828 **	868.9625

NOTE: * = Texas DPS Primary 1 Net. W/Highways?
** = Texas DPS Primary 2 Net. W/Highways?

Request adj-channels be blocked to provide protection of Statewide systems.

Kenneth C. Yoder, Texas APCO
Frequency Advisor