Region 50

Texas – El Paso

700 MHz Regional Planning Committee

July 1, 2013

Federal Communications Commission
Office of the Secretary
445 12th Street NW
Washington, D. C. 20554

Attention: Chief, Public Safety and Homeland Security Bureau

Subject: WTB Docket No. 02-378, Region 50 (Texas – El Paso) 700 MHz Regional Plan

Dear Secretary:

Attached is the Region 50, 700 MHz Regional Plan for your review and approval. This Plan, and all associated documents was approved by the membership of the Regional Planning Committee. Copies of the Plan were distributed to the five adjoining regions for their review and concurrence. Copies of each of the five letters of concurrence are included as Attachment N to our Plan.

I want to thank the National Coordinating Committee (NCC), the National Public Safety Telecommunications Council (NPSTC), and the National Regional Planning Council (NRPC) and their leadership for the tools and guidance that helped us through the planning process.

It is our hope that this plan will receive your approval and allow public safety entities throughout our region to access this much needed frequency spectrum.

Please feel free to contact me if there are any questions at 915-771-1058, or mendezf@elpasotexas.gov.

Regards,

Frank Mendez, Region 50 Chairman

Frank Mendez, Chairman, Region 50 Regional Planning Committee
Telecommunications Manager, City of El Paso, TX
8600 Montana, Suite C, El Paso, TX 79925
mendezf@elpasotexas.gov
915.771.1058: office; 915.791.2650: mobile

Carol Sutherland, Region 50 Secretary
Strategic Communications Planning
Texas Department of Public Safety
San Antonio, TX, (210)844-8969
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Region 50: 700 MHz Regional Plan
El Paso Area
55 West Texas Counties

Council of Governments:
-Concho Valley Council of Governments
-Permian Basin Regional Planning Commission
- Rio Grande Council of Governments
-West Central Texas Council of Governments

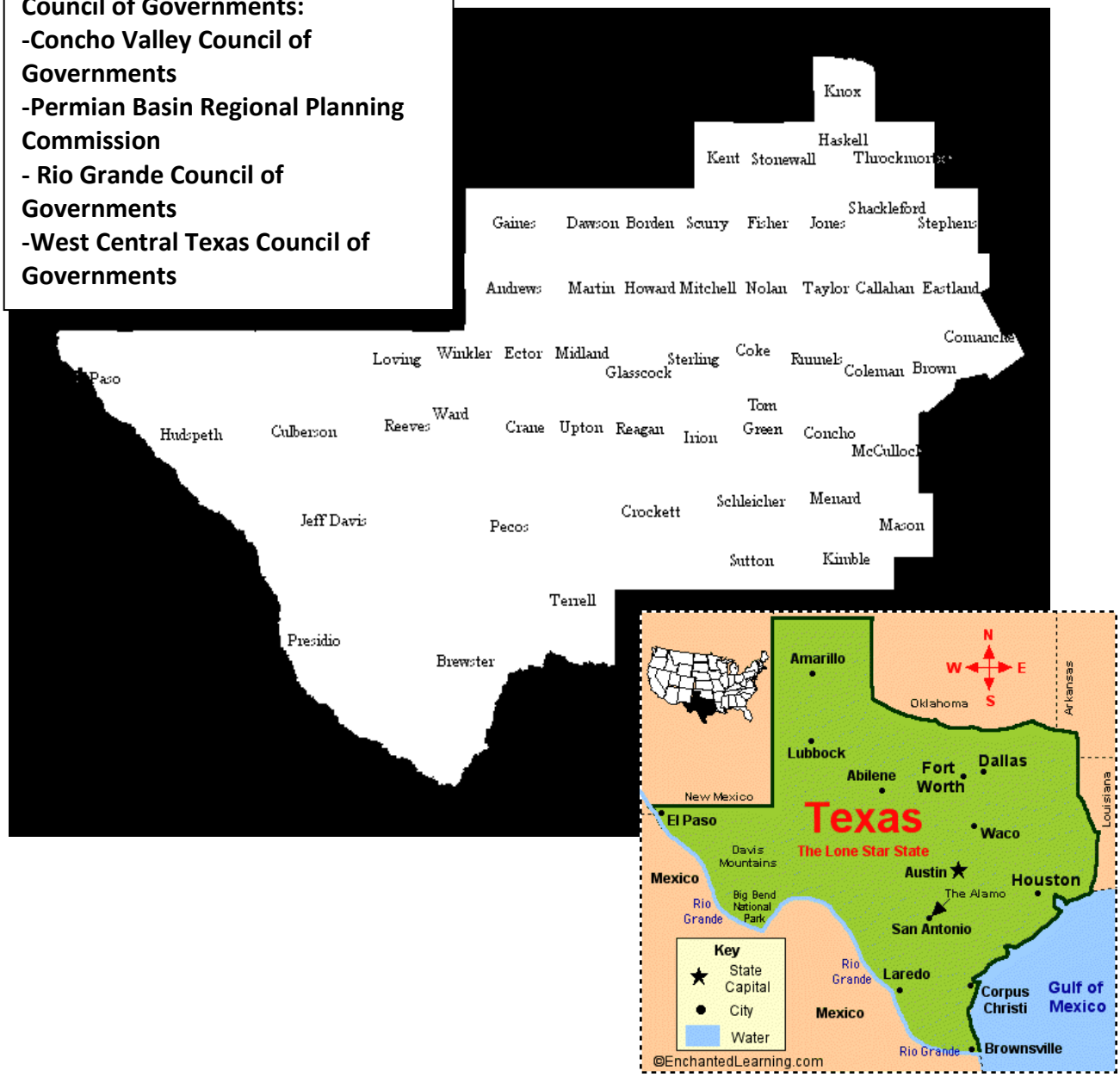


TABLE OF CONTENTS

1. 764-776/794-806 MHZ REGIONAL PLAN FOR REGION 50 (WEST TEXAS, EL PASO) ……..4
1.1 REGIONAL OFFICERS AND MEMBERSHIP 4
1.2 FCC 90.527 – MAJOR ELEMENTS OF THE PLAN 4
2. REGIONAL PLANNING COMMITTEE 6
2.1 DESCRIPTION OF REGION 6
2.2 NOTIFICATION PROCESS 9
2.3 OPERATIONS OF THE REGIONAL PLANNING COMMITTEE 10
2.4 DISPUTE RESOLUTION: INTRA-REGIONAL 11
2.5 DISPUTE RESOLUTION – INTER-REGIONAL 13
2.6 PLAN AMENDMENTS 13
3. REGIONAL PLAN ADMINISTRATION 14
3.1 ALLOTMENT OF NARROWBAND "GENERAL USE" CHANNELS.....14
3.2 "LIMITED AREA" OPERATIONS 15
3.3 "GIVE BACK" CHANNELS 15
3.4 LOW POWER CHANNELS 16
3.5 "ORPHANED CHANNELS" 18
3.6 PROCEDURE FOR REQUESTING CHANNEL ASSIGNMENTS 19
3.7 MEXICO BORDER ISSUES 20
3.8 ASSIGNMENT DISPUTES 21
3.9 NPSPAC CHANNELS 22
4. PRIORITY MATRIX 22
5. PROCESS FOR HANDLING UNFORMED ADJACENT REGIONS 24
6. COORDINATION WITH ADJACENT REGIONS 24
7. SYSTEM DESIGN / EFFICIENCY REQUIREMENTS 25
7.1 INTERFERENCE PROTECTION 25
7.2 SPECTRUM EFFICIENCY STANDARDS 26
7.3 SYSTEM LOADING CRITERIA 26
7.4 EXPANSION OF EXISTING 800 MHZ SYSTEMS 27
7.5 SYSTEM IMPLEMENTATION 27
8. INTEROPERABILITY CHANNELS 27
8.1 INTRODUCTION 27

8.2 TACTICAL CHANNELS 28
8.3 DEPLOYABLE SYSTEMS 28
8.4 MONITORING OF CALLING CHANNELS 29
9. FUTURE PLANNING 30
10. CERTIFICATION OF OPEN MEETINGS 30

Appendices

A Bylaws

B Membership List (Active)

C Initial Meeting Data

- C1 First Meeting Notifications and Agenda
- C2 Public Notices of Planning Meetings
- C3 Meeting Agenda
- C4 Meeting Minutes
- C5 Master Contact List

D Region 50 Application Process Diagram

E Simplified Pre-Assignment Rules

F Channel Allotment Reports

G Inter-Regional Coordination Procedures and Procedures for Resolution of Disputes That May Arise Under FCC Approval Plans

H 700 MHZ Interoperability Channel Recommended Nomenclature and Texas State Interoperability Guidelines

J 700MHz Spectrum Border Agreements with Mexico

K Certification of Open Meetings

L Application Checklist

Attachments

Attachment M: Combined Inter-Regional Agreements

Attachment N: Combined Letters of Concurrence

1. 764-776/794-806 MHz Regional Plan for Region 50 (West Texas, El Paso)

This document is the regional plan for Region 50 (West Texas, El Paso) describing how the 746- 776/796-806 MHz General Use frequencies will be allocated and implemented in the region.

1.1 Regional Officers and Membership

At the time of transmittal of this plan to the FCC, the following individuals serve in leadership roles of the Region 50 Regional Planning Committee (RPC).

The Chairman of Region 5 is Frank Mendez. His contact information is:

Frank Mendez, Telecommunication Manager, City of El Paso
Telecommunications Division, 8600 Montana, Suite C, El Paso, TX 79925
mendezf@elpasotexas.gov, (9150 771-1058 or cell (915)791-2659

The Vice-Chairman of Region 50 is Tom Mann. His contact information is:

Tom Mann, Director Homeland Security, West Central Texas Council of Governments
3702 Loop 322, Abilene, TX 79602
325-672-8544, tmann@wctcog.org

The Secretary /Treasurer of Region 50 is Carol Sutherland. Her contact information is:
Carol Sutherland, Strategic Communications Planning
Texas Department of Public Safety (support)
(210)844-8969; email carol.sutherland@dps.texas.gov.

From time to time, as described in the Committee By-Laws (Appendix A) these positions will be subject to re-election. At any such time as one of these positions changes, the Chair will be responsible for taking the following actions:

- Providing notice to the FCC of the changes;
- Providing notice to the entity maintaining the CAPRAD system of the changes;
- Modifying the Region 50 information on www.NIIX.org to reflect the changes.

Such changes will not be considered as plan modifications, and will not require that this document be resubmitted to the FCC for public notice and comment cycles.

1.2 FCC 90.527 – Major Elements of the Plan

This section identifies the location of each FCC regional plan requirement for 764-776/794-806 MHz Regional Plans:

(a) Common elements. Regional plans must incorporate the following common elements:

(1) Identification of the document as the regional plan for the defined region with the names, business addresses, business telephone numbers, and organizational affiliations of the chairpersons and all members of the planning committee. See Sections:

- Section 1: 764-776/794-806 Regional Plan for Region 50 (South Texas – San Antonio)
- Appendix B: Region 50 Membership List

(2) A summary of the major elements of the plan and an explanation of how all eligible entities within the region were given an opportunity to participate in the planning process and to have their positions heard and considered fairly. See Sections:

- Section 1.2: FCC 90.527- Major Elements of the Plan
- Section 2.2: Notification Process

(3) A general description of how the spectrum would be allotted among the various eligible users within the region with an explanation of how the requirements of all eligible entities within the region were considered and, to the degree possible, met. See Section:

- Section 3.1: Allotment of Narrowband General Use Channels

(4) An explanation as to how needs were assigned priorities in areas where not all eligible entities could receive licenses. See Section:

- Section 4: Priority Matrix

(5) An explanation of how the plan had been coordinated with adjacent regions. See Section:

- Section 6: Coordination with Adjacent Regions

(6) A detailed description of how the plan put the spectrum to the best possible use by requiring system design with minimum coverage areas, by assigning frequencies so that maximum frequency reuse and offset channel use may be made, by using trunking, and by requiring small entities with minimal requirements to join together in using a single system where possible. See Section:

- Section 7.2: Spectrum Efficiency Standards

(7) A detailed description of the future planning process, including, but not limited to, amendment process, meeting announcements, data base maintenance, and dispute resolution. See Sections:

- Section 2.2: Notification Process
- Section 2.4: Dispute Resolution – Intra Regional
- Section 2.5: Dispute Resolution – Inter Regional
- Section 2.5: Plan Amendments
- Section 9: Future Planning

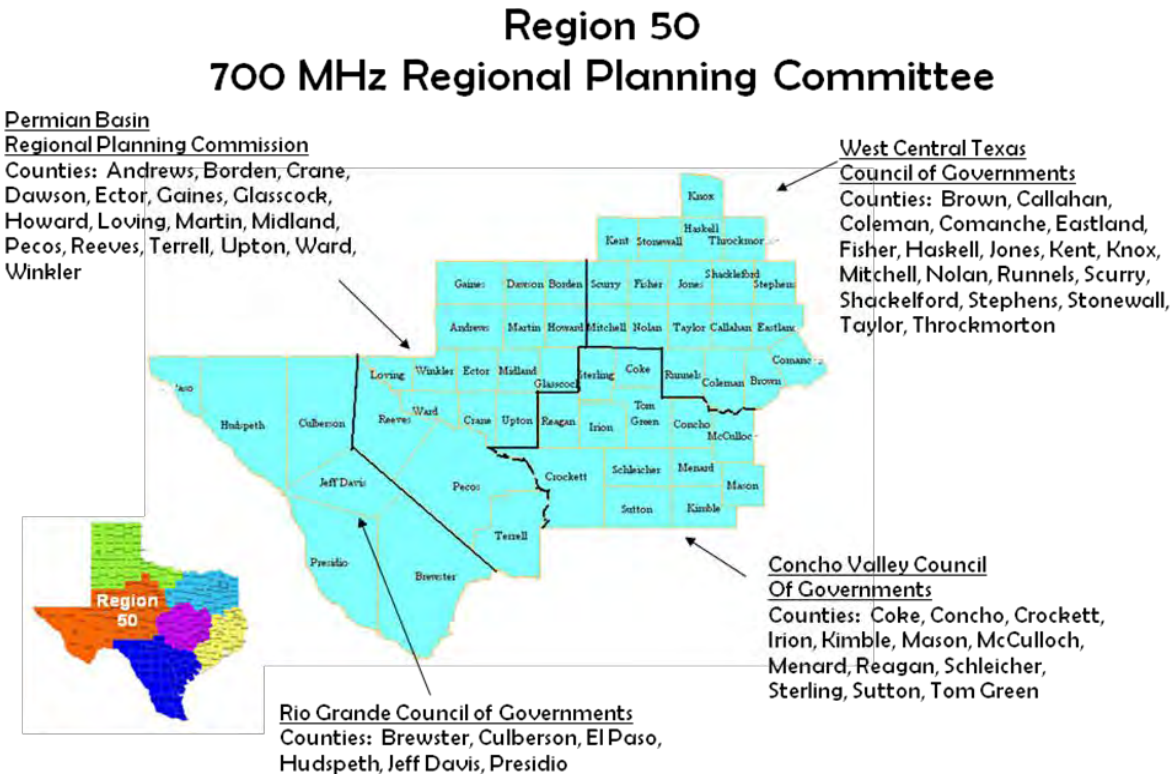
(8) A certification by the regional planning chairperson that all planning committee meetings, including subcommittee or executive committee meetings were open to the public. See: Appendix K.

Membership in the Region 50 RPC is open to any interested party. Committee officer requirements, voting procedures and membership attendance requirements are listed in the Region 50 Regional Planning Committee Bylaws. Appendix A contains these bylaws. Appendix B includes a list of Region 50's members and their agency/affiliation through the date of plan submission. Voting and operating procedures are described in Section 2.3 of this plan.

2. Regional Planning Committee

2.1 Description of Region

Region 50 is comprised of 55 counties in West Texas. The following figure shows the geographical relationship of the counties to each other and to the rest of the state.



The following tables list each of the 55 counties and indicate the following information for each county:

- County area in square miles.
- County's estimated population in 2010 (if available).
- Approximate maximum ground level elevation (above sea level) in the county.
- County's population density (persons per square mile) used to develop the 700 MHz channel allocations.
- General description of the county's topography.

Region 50 RPC County Characteristics and Topography						
County	Area (SqMi)	Population (2010 est)	~Min. Elev (Ft.ASL)	~Max.Elev (Ft. ASL)	Population Density/ Sq.Mi.(2010)	TOPOGRAPHIC CHARACTERIZATION
Andrews	1,501	14,786	2883	3500	9.9	Rolling prairie
Borden	899	641	2260	2906	0.7	Rolling prairie
Brewster	6,193	9232	0	3750	1.5	Shares international border with Mexico; rough mountainous terrain; location of Big Bend National Park
Brown	944	38106	800	1919	40.4	Rolling hills
Callahan	899	13544	1361	2198	15.1	Rolling plains
Coke	899	3320	1676	2611	3.7	On the Edwards Plateau; flat open farm/ranch land
Coleman	1,260	8895	1289	3769	7.1	Rolling hills with some plateaus
Comanche	938	13974	1000	1843	14.9	On the Edwards Plateau; flat open farm/ranch land
Concho	991	4087	1420	2221	4.1	On the Edwards Plateau; flat open farm/ranch land
Crane	786	4375	2306	2900	5.6	Open range farm land with little to no water
Crockett	2,807	3719	1797	3061	1.3	Located on the Edwards Plateau; open range ranch land
Culberson	3,812	2398	2841	4773	0.6	Trans Pecos region containing part of the Guadalupe Mountain Range
Dawson	902	13833	2529	3080	15.3	Open range farm land
Eastland	926	18583	941	1873	20.1	Hilly, rolling terrain
Ector	901	137,130	180	3336	152.2	Stark flat landscape with small slightly rolling areas and few trees
El Paso	1,013	800,647	3569	7171	790.3	Shares international border with Mexico; home of Ysleta Del Sur Pueblo Indian Nation; Basins surrounding the Franklin Mountains
Fisher	901	3974	1735	2224	4.4	Open range farm/ranch land
Gaines	1,502	17526	2965	3579	11.7	Flat prairie land
Glasscock	901	1226	2467	2729	1.4	Level prairie land
Haskell	903	5899	1338	1669	6.5	Rolling plains
Howard	903	35,012	2155	2772	38.8	Table lands and plateaus
Hudspeth	4,571	3476	3116	4642	0.8	Shares international border with Mexico; Trans Pecos region containing part of the Guadalupe Mountain Range
Irion	1,051	1599	2004	2723	1.5	Open plateaus
Jeff Davis	2,264	2342	3228	5636	1	Shares international border with Mexico; home of the
Jones	931	20,202	1473	1873	21.7	Prairie farml land
Kent	902	808	1761	2834	0.9	Prairie land and mesquite woodlands
Kimble	1,251	4607	1443	2345	3.7	Hilly terrain with rivers, valleys and cedar brakes
Knox	849	3719	1200	1679	4.4	Rolling plains
Loving	673	82	2660	3313	0.1	Flat desert with some low hills containing desert shrubs, range grass, cactus and salt cedars along the river
Martin	915	4799	2444	2913	5.2	Flat prairie land
Mason	932	4012	1158	2171	4.3	Plateaus with slightly rolling hills
McCulloch	1,069	8283	1279	2020	7.7	Plateaus with slightly rolling hills
Menard	902	2242	1699	2345	2.5	Plateaus with slightly rolling hills
Midland	900	136,872	2549	2959	152	Stark flat landscape with small slightly rolling areas and few trees
Mitchell	910	9403	1873	2614	10.3	Prairie land
Nolan	912	15,216	1889	2604	16.7	Rrolling uplands, plateaus and valleys
Pecos	4,764	15,507	2057	4790	3.3	Hills, valleys and mesas and the Glass Mountains
Presidio	3,856	7,818	2312	7723	2	Shares international border with Mexico; Rolling plains, high mountain ranges, rugged canyons and cliffs
Reagan	1,175	3,367	2365	2956	2.9	Flat to gently sloping plains
Reeves	2,636	13,783	0	4786	5.2	Open range ranch and farm land
Runnels	1,051	10,501	1482	2296	10	Rolling prairie
Schleicher	1,311	3,461	2070	2532	2.6	Rolling to hilly terrain
Scurry	903	16,921	1876	2788	18.7	Great plains
Shackelford	914	3,378	1125	1830	3.7	Forrest regions; rolling plains
Stephens	895	9,630	994	1581	10.8	Hilly plateaus
Sterling	923	1,143	1919	2634	1.2	Central prairie surrounded by hills and drains
Stonewall	919	1,490	1463	2437	1.6	Rolling plains
Sutton	1,454	4,128	1863	2460	2.8	Great plains and Edwards Plateau
Taylor	916	131,506	1643	2483	143.6	Rolling plains
Terrell	2,358	984	1187	3490	0.4	Shares international border with Mexico; Gently rolling to level plains; mountainous with canyons and valleys
Throckmorton	912	1,641	1095	1601	1.8	Rolling plains
Tom Green	1,522	110,224	0	2578	72.4	Plains and plateaus
Upton	1,242	3,355	2424	3143	2.7	Flat plains to the north; rolling hills south
Ward	835	10,658	2421	2788	12.8	Flat land
Winkler	841	7,110	2670	3389	8.5	Gently rolling to level plains

The region is characterized by the Rio Grande River forming the international border with Mexico to the south and the New Mexico border to the north and west. The City of El Paso is the most western point of Texas and is bordered by Mexico and New Mexico. The Ysleta Del Sur Pueblo Indian Nation, several State and National Parks, the McDonald Observatory and a number of mountain ranges are all located in Region 50. The terrain includes desert lands, open ranges and farmlands, mountain ranges and valleys, and flat prairie lands. The

Edwards Plateau and Aquifer Recharge Zone runs through portions of Coke, Comanche, Concho, Crockett, and Sutton counties.

Population densities (based on 2010 census data) in the region range from a rural .1 person per square mile in Loving County to an urban 790.3 persons per square mile in El Paso County. There are five counties with populations exceeding 50,000 in the region.

COUNTY	AREA (SqMi)	POPULATION (2010 est)
Ector	901.06	137,130
El Paso	1013.11	800,647
Midland	900.25	136,872
Taylor	915.63	131,506
Tom Green	1522.1	110,224

The variety of terrain presents some unique problems in achieving full radio coverage of some jurisdictions' areas. All these factors were considered when designing flexibility into this plan.

In the 700 MHz band, county allotments for the narrowband channels have been developed based on terrain characteristics and population densities both within the region and relative to adjacent regions. Due to the region's diverse population densities and the spectrum resources in the region's more heavily populated areas, it is anticipated the majority of requests for voice/data spectrum will be from the metropolitan areas, several of which currently operate existing 800 MHz radio networks.

There are five Metropolitan Statistical Areas located in Region 50. Their names, counties in which they are located, and their estimated 2010 populations (per the Texas State Demographer) are:

Metropolitan Statistical Area	Counties Included	2010 Est. Population
Abilene, Texas Metropolitan Statistical Area	Callahan County	162,562
	Jones County	
	Taylor County	
El Paso, Texas Metropolitan Statistical Area	El Paso County	758,303
Odessa, Texas Metropolitan Statistical Area	Ector County	135,240
Midland, Texas Metropolitan Statistical Area	Midland County	135,244
San Angelo, Texas Metropolitan Statistical Area	Irion County	107,861
	Tom Green County	

It is anticipated that other areas within Region 50 may request 700 MHz channels from established county pool allotments to either expand existing 800 MHz systems or develop new 700 MHz systems.

2.2 Notification Process

Frank Mendez, Chairman of the Region 50 - 821 MHz Regional Review Committee, was the 700 MHz Convener for the initial meeting. The first 700 MHz RPC meeting date was May 2, 2012. Interested parties were given more than 60 days' notice prior to the first meeting. Announcements of the date, time, location, and purpose of the first meeting were sent to the FCC Wireless Telecommunications Bureau and published on each of the four Region 50 Councils of Governments websites and the Texas Department of Public Safety website. The Councils of Governments (COG) were asked to place legal notices in the major newspaper serving each COG.

The Secretary utilized many resources to develop the master mailing list of federal, state, and local public safety agencies with offices in the region. Agencies providing contact information include: Sheriff's Association of Texas, Texas Department of Public Safety, Southwest Border Communications Working Group, Texas Association of Regional Councils, Concho Valley COG, Permian Basin Regional Planning Commission (COG), Rio Grande COG, West Central Texas COG. A sample mailing list is included in Appendix C.5.

There are three federally recognized Indian tribes in Texas today. Based on information from the Bureau of Indian Affairs, the only Native American tribal reservation located within Region 50 is the:

- Ysleta Del Sur Pueblo Tribal Nation, El Paso, TX

Approximately 500 copies of the first meeting notice were mailed and emailed to all known federal, state, and local public safety agencies within the region. Copies of the first meeting's notice were mailed to the Ysleta Del Sur Pueblo Tribal Nation Police Chief. A representative from the Tribe attended the El Paso Region 50 meeting.

Copies of the public notice issued by the FCC, the mailed notice of Region 50 meeting, and other notifications are included in Appendix C.1.

Region 50 RPC established an internet site on the National Interoperability Information eXchange (NIIX) web-site (sponsored by the National Public Safety Telecommunications Council) for document download and review. To access Region 50 planning materials go to: www.NIIX.org, (after registering) go to Your Communities (screen left) and scroll down to the Texas Region 50 – 700 MHz Planning Committee community, then click of the file you would like to access.

At the first meeting all participants were asked by which methods they had received notice of the meeting. The great majority of participants had received the direct mail and email notices, and preferred electronic notification. Therefore, it was decided to discontinue expensive direct mail and newspaper notices for future meetings, and use email and websites for future meeting notifications and Region 50 business.

Subsequent meetings of the committee were also publicized by FCC Notice, postings on the Councils of Governments and DPS websites, and the Texas Region 50 site at www.NIIX.org, and email notices. These subsequent notices were also issued two to four weeks before the meeting date, and copies are included in Appendix C.2.

Meetings of the committee were held via WebEx Conference Bridge and at various geographic locations throughout the region to promote participation of representatives from all entities within the region. Participation by the Texas Department of Public Safety was common.

The Region 50: 700 MHz master membership and point-of-contact (POC) list was created February 25, 2012 and is updated routinely as information is confirmed or with new member information. The POC list and all RPC planning documents are on the www.NIIX.org site under the Texas Region 50 community. This website

and membership list is also used to exchange information as well as disseminate planning documents, meeting times, dates, locations, and agendas throughout the regional planning process.

2.3 Operations of the Regional Planning Committee

This committee uses Robert's Rules of Order to conduct meetings. All decisions are made by clear consensus vote with each public safety agency in attendance having one (1) vote. Additional voting member considerations are listed in the Region 50 Bylaws, Appendix A.

The meetings are open to all interested persons and public input time is provided for anyone to express a viewpoint or to have input to the regional planning process. Appendix K is a Certification of Open Meetings. Any changes to the regional plan must be voted on and approved by a majority of members attending a full Regional Planning Committee meeting, in accordance with the procedures contained in Section 2.6 of this plan.

Officers of the committee are the chairman, vice-chairman and secretary. They are elected for a term of five years, or until their successors, if any, are chosen, or in each case until he or she sooner dies, resigns, is removed or becomes disqualified. If the chairman is unable to serve a complete term, the vice-chairman will serve as chairman until the next committee meeting.

Invitees are encouraged to provide input into the planning process. During the meetings, participants are encouraged to comment on the meeting's agenda items and any other pertinent matters. Comments may be heard at the meetings, provided ahead of the meetings on the web sites, and made directly to the chairman, other committee officers, and the subcommittee chairmen.

When comments are made at meetings, the chairman acknowledges the question/comment, and deliberation follows until the commenting party is satisfied or until additional information can be gathered and presented at the next meeting. If voting is necessary, Roberts Rules of Order are followed.

Texas has formed the Texas Interoperable Communications Coalition (TxICC), [aka the Statewide Interoperability Executive Committee (SIEC)] to manage the 700 MHz interoperability channels. A link to the Texas Statewide Interoperability Channel Plan can be found in Appendix H: 700 MHZ Interoperability Channel Recommended Nomenclature and Texas State Interoperability Guidelines. The Texas Statewide Interoperability Coordinator (SWIC) is the chairman of the TxICC and works closely with the Region 50 officers.

Subcommittees: Subcommittees have been formed as needed to work on specific issues. At the first meeting three subcommittees were formed. These subcommittees are intended to work on the details of specific issues and make recommendations to the full committee for the development of the regional plan. Participation in subcommittees is open to any member. The chairman of the RPC appoints each subcommittee chairman. The initial Region 50 subcommittees and their current chairmen are listed below:

- Bylaws: Michael Ada, Rio Grande COG
- Technology/Software/Interoperability: Jorge Perez, Clint Police Dept.
- Peer Review / Dispute Resolution: Barney Welch, Permian Basin Regional Planning Commission

Meetings: An annual meeting of the full committee shall be held in Texas of each year.

Quarterly meetings of the committee may be held in June, September, and December of each year at a location to be determined by the Committee. The chairman also has the authority to call meetings whenever he/she deems it necessary or in the best interest of the region to convene. In an attempt to offer as many

people as possible the opportunity to contribute to the committee, some of the meetings will be via WebEx Conference Bridge, and others will be held in various locations within Region 50.

A chronological list of meetings, meeting announcements, agendas, and meeting minutes documenting Region 50's progress in 700 MHz development is located in Appendix C of this document.

2.4 Dispute Resolution: Intra-Regional

In the event an agency disputes the implementation of all or parts of this plan, the agency must notify the chairman of the dispute in writing. The chairman will first attempt to resolve the dispute on an informal basis. If a party to the dispute employs the chairman, then the vice chairman will attempt resolution. If after 45 days the dispute is not resolved, the chairman (or vice chairman) will hand-off the dispute to the Peer Review / Dispute Resolution Subcommittee.

In order to ensure that the appeal process is open and understandable to everyone, the RPC has developed the following procedures. Those involved in the appeal process can expect the RPC and its members to follow these procedures (as may be amended from time to time). Where any matter arises during the course of an appeal that is not addressed in this document, the RPC will do whatever is necessary to enable it to adjudicate the appeal fairly, effectively, and completely. As the RPC gains experience, it will refine and, if necessary, change its policies. Any changes made to the procedure will require an administrative modification to the Regional Plan and will be made available to the public. The RPC will make every effort to process appeals in a timely fashion and issue decisions expeditiously.

A. If any subcommittee member becomes aware of any facts that would lead an informed person, viewing the matter reasonably and practically, to conclude that another member, whether consciously or unconsciously, would not decide a matter fairly, that member will be prohibited from conducting the appeal unless consent is obtained from all parties to continue. In addition, any party to an appeal may challenge a member on the basis of real or a reasonable apprehension of bias.

B. To ensure the appeal process is kept open and fair to the participants, any correspondence to the subcommittee must be sent to its Chair and be copied to all other subcommittee members and other parties to the appeal, if applicable. Subcommittee members will not contact a party on any matter relevant to the merits of the appeal, unless that member puts all other parties on notice and gives them an opportunity to participate. The appeal process is public in nature and all meetings regarding the appeal will be open to the public.

C. The subcommittee hears appeals from a determination or assignment by the RPC and includes the following: number of channels assigned, interference, or any other criteria that the region shall establish.

D. An official of the entity who filed the original application to the RPC must be the person who files the appeal on behalf of the entity.

E. To serve a notice of appeal upon the RPC: The notice of appeal may be "delivered" by mail, courier, e-mail (must be on the appealing entity's official letterhead and include the originator's signature, such as using a scanned image in Portable Document Format of an original letter) or hand delivered, to the Chair and Secretary of the RPC. The Secretary will in-turn transmit notice of the appeal to all then-current RPC members via Region 50 Membership POC email list within 10 working days of receipt. To be accepted for consideration the notice of appeal must include:

1. The name and address of the appellant;
2. The name of the person, if any, making the request for an appeal on behalf of the appellant;

3. The address for service of the appellant;
4. The grounds for appeal (a detailed explanation of the appellant's objections to the determination - describe errors in the decision);
5. A description of the relief requested (what the appellant wants the RPC to do at the end of the appeal);
6. The signature of the appellant or the appellant's representative.

F. To appeal a determination or assignment, the entity that is subject to the determination must deliver a notice of appeal within twenty-one (21) calendar days after receiving the decision. If a notice of appeal is not delivered within the time required, the right to an appeal is lost.

G. The RPC has the discretion to extend the time to appeal either before or after the twenty-one (21) calendar day deadline. A request for an extension should be made to the Chair and Secretary in writing, and include the reasons for the delay in filing the notice of appeal, and any other reasons which the requester believes support an extension of time to file the appeal. In deciding whether to grant an extension, the RPC will consider whether fairness requires an extension. The RPC will consider the length of the delay, the reasons for the delay, any prejudice to those affected by the delay, and any adverse impact that may result from an extension. Other factors not identified here could also be relevant, depending on the circumstances of the particular case.

H. The RPC may reject a notice of appeal if it is determined that the appellant does not have standing to appeal, or the RPC does not have jurisdiction over the subject matter or the remedy sought. Before an appeal is rejected, the RPC Chair will inform the appellant of this in writing, with reasons, and give the appellant a twenty-one (21) calendar day opportunity to make additions or corrections.

I. The Peer Review Subcommittee has the discretion to add any other person who may be "affected" by the appeal as a party to the appeal. Anyone desiring to obtain party status should make a written request to the Peer Review Subcommittee Chair as early as possible.

The written request should contain the following information:

- The name, address, telephone number and email address (if any), of the person submitting the request;
- A detailed description of how the person is "affected" by the notice of appeal;
- The reasons why the person should be included in the appeal;
- The signature of the person submitting the request.

J. The Peer Review Subcommittee may also invite or permit someone to participate in a hearing as an intervener. Interveners are generally individuals or groups that do not meet the criteria to become a party (i.e. "may be affected by the appeal") but have sufficient interest in, or some relevant expertise or view in relation to the subject matter of the appeal. Anyone wanting to take part in an appeal as an intervener should send a written request to the Peer Review Subcommittee Chair. The written request should contain information that qualifies the intervener's interest and expertise to assist in the matter while also demonstrating why they should not be considered a party to the appeal. Prior to inviting or permitting a person to participate in a proceeding as an intervener, or deciding on the extent of that participation, the Peer Review Subcommittee will provide all parties with an opportunity to comment if they wish to do so.

K. An appeal may be conducted by way of written submissions, oral hearing or a combination of both. The Peer Review Subcommittee will determine the appropriate type of appeal after a complete notice of appeal has been received.

L. The Peer Review Subcommittee will follow the general rule that the burden or responsibility for proving a fact lies with the person who asserts it.

M. Any party intending to present expert evidence at a hearing will be required to provide the subcommittee, and all other parties to the appeal, with reasonable advance notice that an expert will be called to give an opinion. The notice should include a brief statement of the expert's qualifications and areas of expertise. If a party intends to produce, at a hearing, a written statement or report prepared by an expert, a copy of the statement or report should be provided to the Subcommittee and all parties to the appeal within a reasonable time before the statement or report is given in evidence. Unless there are compelling reasons for later admission, expert reports should be distributed not less than twenty-one (21) calendar days prior to the hearing date.

N. If a party will be referring to a document that was not provided to the Subcommittee and all parties prior to the hearing, sufficient copies of the document must be brought to the hearing for the Subcommittee and all other parties.

O. If a party is not satisfied with the decision of the Peer Review Subcommittee, he or she can appeal that decision to the full membership of the RPC or to the 700 MHz National Planning Oversight Committee or other body designated to handle matters of this nature. As a last resort, the dispute will be forwarded to the Federal Communications Commission for final resolution.

2.5 Dispute Resolution – Inter-Regional

In the event that a dispute arises between Region 50 and an adjacent region or regions, regarding channel allotments or assignments that cannot be resolved within 60 days, the parties to the dispute will request a hearing by the appropriate subcommittee of the National Regional Planning Council (NRPC), or any subsequent oversight organization. See Appendix G for a sample Inter-Regional Dispute Resolution Agreement, and Attachment 1 for copies of the signed agreements between Region 50 and adjacent Regions 29, 40, 49, 52, and 53.

2.6 Plan Amendments

Region 50 maintains planning documents for download and review at www.NIIX.org. To access the Plan and Appendices go to: *Your Communities*, then click on *Texas Region 50 700 MHz Planning Committee.* All current plan documents, meeting announcements, meeting minutes, and other pertinent information are maintained at this website.

It is anticipated that two types of plan modifications will be made in the future: administrative changes that do not alter spectrum allotments in the plan, and changes that do alter the spectrum allotments in the plan. Each of these types of changes will be handled by a different process.

A. From time to time the Committee may need to make changes to the plan that are purely administrative in nature, and that do not alter any spectrum allotments. Examples of such changes include changes in officer positions, changes in meeting schedules, changes in application processing procedures, etc.

Proposed administrative changes to the plan will be presented to the Committee at a properly scheduled meeting, and adopted at that meeting, if possible. Upon a vote by the majority of members in attendance at that meeting, consideration of the change may be held over for subsequent meetings to allow further information to be collected or further debate to occur. Once the proposed change is adopted by the Committee, the amended plan will be filed with the FCC for formal ratification. Copies will also be provided to the chairmen of the adjoining regions so they are aware of the administrative changes.

B. From time to time the Committee may need to make changes to the plan that alters the allotment of channels. Examples of such changes include situations in which one county-like area has fully exhausted their initial allotment and needs additional channels to meet their demonstrated need, while other county-like areas have demonstrated no interest in planning or funding the use of their allotted channels.

Proposed changes of this nature will be presented to the Committee at a properly scheduled meeting, and will be considered at that meeting and one subsequent meeting. Once the proposed change is approved by the Committee, notification of the proposed change will be sent to the chairmen of the adjacent regions for their concurrence. The adjoining regions will be requested to provide their comments or consent within 45 calendar days of their receipt of the notification.

Once adjacent regions' comments or consent is received, or the 45 day period has expired, the Committee will again consider and vote on the proposed change at a properly scheduled meeting. Upon adoption of the change by the Committee, the amended plan will be submitted to the FCC for ratification.

3. Regional Plan Administration

3.1 Allotment of Narrowband "General Use" Channels

This regional plan uses the 2008 general use channel sort as shown on the CAPRAD database for narrowband general use channels. The CAPRAD sort and allotment process used many factors, including population densities and geographic terrain features, to achieve nationwide allotments that are efficient, while minimizing co-channel and adjacent channel interference both within and between neighboring regions. Region 50 utilizes the CAPRAD database and will maintain the regional plan and current frequency allotment/assignment information on the database.

The initial allotments produced by the CAPRAD sort are starting points for frequency assignments in all regions. The major purpose of the CAPRAD sort was to establish non-interfering allotments along all regional borders, thus greatly simplifying the initial coordination between all adjoining regions. The technical proposal paper for the initial 2003 CAPRAD sort stated, "Pre-allotments may be altered without the need for inter-regional coordination as long as adjacent regions are not impacted. Changes that impact adjacent region(s) can only be made with inter-regional concurrence(s)."

The Region 50 RPC has both the ability to initiate and accept recommendations, and the authority to change the frequency allotments.

If at any time a system is assigned channels within Region 50 and the system cannot be developed within the agreed terms, the channels will be returned to the original county pool allotment and again be available to other agencies in the region.

Allotments to all counties within Region 50 have been made utilizing the national CAPRAD database sort. Due to the impending narrowband date, and for ease of licensing, the CAPRAD 25 KHz channel allotments have been split to provide two 12.5 KHz channels. The 25 KHz channel assignments are divided into consecutive 12.5 KHz "A" and "B" blocks. The "A" block is the lower of the two frequencies, and the "B" block is the higher of the two frequencies. The "A" block is prioritized for primary system assignments within the assigned geographic area, and the "B" block is prioritized for "orphan" assignments. This is more efficient use of spectrum. (See Section 3.5.)

These channel groups will allow for various digital technologies to be implemented. Appendix F reflects the results of these choices.

Agencies will be expected to maintain 12.5 KHz equivalency when developing systems and will be required to utilize both 12.5 KHz portions of the 25 KHz block, or surrender licenses to prevent interference to primary use channels. To the maximum extent possible, and in order to promote spectrum efficiency, Region 50 will attempt to ensure that systems allocated the 25 KHz channel blocks will utilize the entire channel, and not "orphan" any portions of an assigned channel. It is expected that all agencies requesting spectrum during the initial filing window (see Section 3.6.A) will be assigned channels if plan requirements and interference standards are met.

This plan does not limit an agency from initially implementing (if it conforms to FCC rules) a technology that yields less than one voice channel per 12.5 KHz channel, or aggregating narrowband data into 25 KHz blocks. Migration and an eventual mandate to 6.25 KHz voice/data technology should be anticipated by applicants.

3.2 "Limited Area" Operations

In the implementation of 700 MHz public safety systems throughout Region 50, there may be opportunities for increased channel reuse by developing radio systems for "limited area" type operations. Examples of those who may be able to capitalize on this opportunity include hospitals, stadiums, malls, places of public gathering, universities, and ports. In many instances, these facilities require a smaller or more specific geographical coverage area than was assumed in the channel packing plan, and may be able to reuse channels more efficiently. These "limited area" type systems also, in many cases, require in-building or confined space/ tunnel radio coverage or communications along a linear pathway, such as a right of way.

There are no channels allocated within the 700 MHz band plan for "limited area" operation. The region encourages applicants to use general pool channels assigned to each geographic county area for "limited area" operations so that channels can be reused within the same county boundary and reused for out-of-pool assignments.

The use of channels for "limited area" operations will allow co-channel spacing significantly less than typical co-channel assignments within the CAPRAD database. Any requests for channels which will operate in a "limited area" must meet the interference criteria for general pool channels defined in Section 7. Out-of-pool assignments for "limited area" use channels will be made on a case by case basis at the discretion of the RPC.

Channels assigned to this type operation can lead to effective system development, along with increased spectral efficiency, if the service contour and interference protection needs of the system are carefully considered in system planning. System parameters must be used that are appropriate to the service area.

Reduced external antenna height, along with reduced ERP, directional antennas, distributed antenna systems, and radiating "leaky coax," are examples of tools that should be utilized in the development of these type systems.

Region 50 will ensure that these types of systems will not interfere with co-channel or adjacent channel users within the region or its adjacent regions. The RPC will require engineering studies from the applicant that indicate no harmful interference will be introduced to any co-channel or adjacent channel user prior to application approval. The committee is the final authority on parameters associated with "limited area" type operations.

3.3 "Give Back" Channels

When applying for new 700 MHz channels, the RPC expects applicants to relinquish an amount of currently used spectrum ("give back channels") and make that spectrum again available for use. This currently licensed spectrum may be in any public safety band. This requirement does not apply to agencies with existing 800 MHz systems that are requesting 700 MHz channels for system expansion. The number of channels an applicant may retain after this "give back" may include those needed for interoperable communications with surrounding jurisdictions. If an agency considers the number of channels relinquished by the applicant to be insufficient, their objection will be handled in the same manner as an assignment dispute (see section 3.7).

It is anticipated each agency will have a certain migration period during which both their existing frequencies and their 700 MHz assignments will be utilized. The RPC will review and approve an appropriate "give back" timetable that will allow a specified time period for new system optimization. This will make an applicant's legacy system available to the applicant for a limited time period during migration, implementation, and optimization of the new system.

When both the applicant and the RPC agree upon the number of "give back" channels and a date is established for implementation of the new system, the applicant will provide the committee with a "giveback agreement" letter containing all pertinent give back channel information. This will enable other agencies in the area to benefit from, license, and implement the applicant's "give back" channels.

Frequency "give back" requirements also apply for regional systems where system participants maintain discrete licenses for their own operations. In the case of a partnership system, all participating political subdivisions or agencies are required to participate in the "give back" plan. Should one political subdivision or agency act as host of a regional system, both the host agency and the constituent agencies must participate in the "give back" plan. Region 50 may utilize any mechanism needed to retain "give back" frequencies within the region and allow for maximum spectral use.

Frequencies used for non-voice critical infrastructure support functions (such as Supervisory Control and Data Acquisition systems) as well as frequencies that are used for interoperability with other regional, state, or national agencies that rely on other frequency bands for emergency operations (such as, but not limited to, the Texas Statewide Interoperability Channel Plan channels), may be exempted by the committee as candidates for "give back". Frequencies used by an applicant for such purposes, as well as the specific use and a network/ system diagram, must be shown in the application documentation package to enable the RPC to consider exemptions.

Operational Fixed, or any frequency or radio sub-system used for fixed mode of operations to support the operation of another radio system shall be considered part of the "give back" along with the fundamental system being returned. They comprise an inclusive unit.

Microwave frequencies, or systems licensed within the "Microwave Public Safety Pool" (radio service Code "MW") shall be exempt from this requirement.

In cases of hardship or untoward implementation, the RPC will consider, on a case-by-case basis, extensions of the "give back" timetable. Should there be a protest the dispute resolution process in Section 2.4 of this document shall apply.

3.4 Low Power Channels

The FCC in the 700 MHz band plan set aside channels 1 - 8 paired with 961 – 968, and channels 949 –958 paired with 1909 – 1918, for on-scene incident response purposes using low power mobiles and portables subject to Commission-approved regional plans. Channels 9 –12 paired with 969 – 972, and channels 959 – 960 paired with 1919 – 1920, are licensed nationwide for itinerant operation. Transmitter power and/or ERP

on any of these channels must not exceed the maximum allowed by the FCC for these channels (two watts ERP). All of these channels may be operated in either the narrowband analog or the digital mode.

This plan does not limit use to analog only operations, and channels are intended for use in a wide variety of applications that may require digital modulation types as well.

On scene temporary base and mobile relay stations are allowed (to the extent FCC rules allow; 2 watts ERP) with antenna height limit of 6.1 meters (20 feet) above ground level (AGL). However, users are encouraged to operate in simplex mode with the least amount of power to reliably maintain communications whenever possible.

In its dialog leading up to the rules allocating the twenty-four low power 6.25 KHz frequency pairs (of which eighteen fall under RPC jurisdiction), the FCC suggested that there is a potential for multiple low power applications. They stated that, absent a compelling showing, a shared approach should be employed rather than making exclusive assignments for each specific application, since low power operations can co-exist, in relatively close proximity, on the same frequencies, with minimal potential for interference due to the FCC power and/or ERP restriction.

Although advantages exist in not making assignments, the reverse is also true. If, for example, firefighters operate on a specific channel or set of channels in one area, there is some logic in replicating that usage throughout the region for firefighter equipment. If there are no assignments, such a replication is unlikely. In seeking the middle ground, with positive attributes both for and against assignments, we adopt the following assignments associated with the eighteen (18) low power channels for which the Region 50 RPC has responsibility:

- Generic – Base channel #'s 1-4 and 949-952 are designated as generic low power channels for licensing and use by all disciplines of public safety agencies operating in Region 50, and the complementary mobile channels #'s 961-964 and 1909-1912 are set aside as generic low power channels for licensing and use by all disciplines of public safety agencies operating in Region 50.

- Fire/ EMS – Base channel #'s 5-8 are designated as Fire/Emergency Medical low power channels for licensing and primary use by the Fire/Emergency Medical disciplines, and the complementary mobile channel #'s 965-968 are set aside as Fire/Emergency Medical low power channels also for licensing and primary use by the Fire/Emergency Medical disciplines.

- Law – Base channel #'s 950-956 are designated as Law Enforcement low power channels for licensing and primary use by the Law Enforcement discipline, and the complementary mobile channel #'s 1913-1916 are set aside as Law Enforcement low power channels also for licensing and primary use by the Law Enforcement discipline.

- Multidisciplinary Joint Public Safety Operations – Base channel #'s 957-958 are designated as Multidisciplinary Joint Public Safety Operations low power channels for licensing and the complementary mobile channel #'s 1917-1918 are also designated as Multidisciplinary Joint Public Safety Operations low power channels for use by political subdivisions and public safety agencies operating under a unified command at a common incident for the express mission of safety of life, property or environment.

Simplex operations may occur on either the base or mobile channels. Users are cautioned to coordinate on-scene use among all agencies involved, particularly when the use of repeater modes is possible at, or in proximity to, a common incident. Users should license multiple channels and be prepared to operate on alternate channels in any given operational area.

The Region 50 RPC urges all 700 MHz users to have the capability to access all of the FCC approved low power and interoperability channels in both repeater and simplex modes. Under no circumstances may a user claim

a low power channel as exclusively theirs. The 700 MHz interoperability channels are administered by the TSIEC.

3.5 "Orphaned Channels"

The Region 50 area has an allotted channel bandwidth of 25 KHz channels split to provide two 12.5 KHz channels. These channel allotments have been characterized as "technology neutral" and flexible enough to accommodate diverse technologies utilizing multiple bandwidths. If agencies choose a technology that requires less bandwidth for their system, there is the potential for residual, "orphaned channels" of 6.25 KHz or 12.5 KHz bandwidth immediately adjacent to the assigned channel within a given county area.

An "orphan channel" may be used at another location and/or by another licensee within the county area where it was originally assigned, if it meets co-channel and adjacent channel interference criteria. Based on adjacent channel interference contour requirements and the potential for overlapping service areas, it is recognized that reuse of "orphan channels" within the same county boundary is not likely.

Based on the progression of technology, 12.5 KHz channel based P25 technologies are the primary trunking solution available to public safety agencies. With the implementation of these systems, it is expected that a large number of "orphan channels" will be created. To make more efficient use of spectrum and simplify the re-allocation of "orphan channels", the Region has divided all 25 KHz channel assignments into consecutive 12.5 KHz "A" and "B" blocks. The "A" block is the lower of the two frequencies, and the "B" block is the higher of the two frequencies. The "A" block is prioritized for primary system assignments within the assigned geographic area, and the "B" block is prioritized for "orphan" assignments to be assigned outside of the CAPRAD assigned geographic area on a case by case basis at the discretion of the RPC.

When it is in the best interest of public safety communications and efficient spectrum use within the region, the RPC shall have the authority to move these "orphan channel" allotments, and/or co-channel or adjacent channel allotments affected by the movement of "orphan channels," to other areas throughout the region, as deemed necessary, to maintain spectrum efficiency and/or minimize co-channel or adjacent channel interference.

With much of Region 50 adjacent to the Mexican Border, a substantial number of 700 MHz channels assigned within the CAPRAD database will be unavailable to affected applicants. The RPC recognizes the need to be flexible with out-of-pool assignments in order to meet the needs of all potential applicants within the region.

If, to accommodate an applicant's request for channel assignments, it is necessary to move a full 25 KHz channel allotment, or a portion thereof, to a location outside of the county area in which it was originally allotted, the requesting entity will determine if the request meets interference protection guidelines consistent with the Region 50 700MHz Plan, and submit the results in the application package to the region. The Region will then evaluate the package and determine if the channel(s) should be moved to accommodate the request.

Request for channels outside of an applicant's assigned general pool allocation must demonstrate that insufficient general pool channels exist to meet the applicant's loading requirements based on the loading criteria established in Section 7.3.

Out-of-pool requests should first be prioritized for unassigned channels. Unassigned channels are those frequencies that are not allocated to any geographic boundary in those areas surrounding a proposed system. If no-out-of-pool channels are available or if all out-of-pool channels have been assigned for a potential applicant, the applicant may request access to "orphan channels" from other county allocations within the region. If insufficient "orphan channels" are available to meet an applicant's request, then the applicant may

request access to unused primary channels from neighboring county allocations. These requests will be handled with a high level of scrutiny by the RPC as the re-assignment of primary pool channels has the potential to limit access to spectrum from potential applicants in the target county border.

Applicants are cautioned that due diligence must be made for all out-of-pool channel assignments. General pool assignments in the CAPRAD database have been pre-coordinated to limit co-channel and adjacent-channel interference. These criteria do not apply when a channel has been moved outside of its original county assignment. It is the responsibility of the applicant to identify and protect co-channel and adjacent-channel licensees and geographic CAPRAD allocations.

If the movement of a full or partial channel allotment is deemed in the best interest of the public safety community, frequency plan changes will be documented in the CAPRAD database. If the movement of the full or partial channel is relocated less than 10 miles outside the originally-allocated county boundaries, the frequency will remain under the originally assigned county area and the notes field will be adjusted to reflect the assignment of the frequency. If the movement of the full or partial channel is relocated more than 10 miles outside the originally-allocated county boundaries, the channel will be re-allocated to the new county area and the notes field will be adjusted to indicate the originally assigned county area.

Plan amendments to reflect updated out-of-pool channel assignments will be made when deemed appropriate by the RPC, but not more than two years following any out-of-pool frequency allocations.

As with in-pool channel assignments, out-of-pool applications for radio sites within proximity to neighboring 700 MHz regions are subject to approval from the Regional Planning Committees of those regions. Out-of-pool requests are subject to the interference criteria established within this plan, and must protect frequency allocations within each neighboring region.

3.6 Procedure for Requesting Channel Assignments

A diagram of the Region 50: 700 MHz application process has been included in this plan as Appendix D.

Upon FCC approval of this plan, the chairman will announce the opening of an initial filing window for a 30 day period, and that specific channels have been allotted to each county area in the region. All available methods will be used to notify public safety entities of the filing window and channel availability in the region (see Section 2.2). Subsequent filing windows will be established at six (6) month intervals with each open for 30 days.

Following the close of the first filing window, thirteen (13) successive filing windows will occur at six month intervals. In addition to processing any applications received during the fourteenth filing windows, the Committee will then make a decision on whether to add additional filing windows, or to allow the filing window approach to automatically sunset.

If no action is taken by the Committee to add additional filing windows, subsequent applications will be received and processed on a first-come, first served basis. Channel assignments will not be constrained to the allocations of this plan, but, instead, will be made opportunistically to allow for the best possible spectrum utilization while meeting the needs of active applicants. This could result in spectrum allotted to some county-like areas, but has sat fallow for seven years, being applied for and made productive by applicants who are making active use of the 700 MHz spectrum.

All requests for assignments of channels will be considered on a first come, first served basis. Multiple requests for the same channels arriving in the same filing window, and requests for more channels than are allotted to the applicant's area, will be processed in accordance with the priority matrix given in Section 4 of

this plan. Region 50 supports the National Coordination Committee Pre-Assignment Rules and Recommendations listed in Appendix E, and will use these guidelines to determine if an application submitted to the RPC meets regional planning and interference protection standards. It is recommended that applicants familiarize themselves with these standards prior to submitting their applications. In general, and unless otherwise noted, the Region 50 RPC will adhere to the published National Coordination Committee Guidelines for 700 MHz Public Safety Regional Planning Committees.

When applying for new 700 MHz channels, the RPC expects applicants to work with neighboring agencies to promote and continue the establishment of interoperability within their communities, to allow for equitable distribution of the frequency allotments, and to promote efficient frequency use. The Region 50 RPC expects applicants to recognize that moving to the 700 MHz band may create a degree of isolation between themselves and neighboring agencies, and expects applicants to maintain or improve interoperability with their neighbors.

To request an assignment of channels from Region 50, a full application package must be submitted through the CAPRAD database at http://caprad.org. The application package must include:

1. FCC Form 601 (or its equivalent form as required by the FCC) with all appropriate schedules and attachments;
2. A description of the proposed system;
3. A justification for the additional spectrum;
4. A proposed system loading schedule;
5. A proposed system implementation schedule;
6. An interference prediction map using the current version of TIA/EIA TSB 88 guidelines;
7. Documents indicating agency-funding commitments sufficient to fund the development of the proposed system(s);
8. A list of all frequencies that will continue to be used by the applicant, and their specific uses;
9. A list of “give-back” channels, if applicable;
10. A list of all Region 50 entities with co-channel or adjacent channel assignments, and a statement indicating the date and manner by which each of these entities was notified of this application; and
11. A statement acknowledging the FCC’s deadline of 12/31/2016 for operating at 6.25 KHz channel spacing, or its equivalent, as well as a signed commitment to meet the deadline and a high level plan of how the deadline will be met.

Exceptions in accepting applications will be made by the chairman if applicants have demonstrated a need for 700 MHz channels and cannot access the CAPRAD database.

The secretary will cause all then-current RPC members to be notified by e-mail that an application is available for review, and notice of the application will also be posted on the Region’s web site and list server. Requests will be considered and approved, providing that harmful interference is not caused to existing users. The technical parameters defining the limits of any possible interference are given in section 7.1 of this plan. Service area and service contours should also meet the values designated in section 7.1 of this plan.

Absent a protest within 60 calendar days of the secretary’s e-mail notification, the application will be approved, and (if applicable), upon receipt of a “giveback agreement” letter (see Section 3.3), the chairman or his delegate will submit it, through the CAPRAD database, to the applicant’s preferred FCC certified frequency coordinator for processing. This process meets the requirements of FCC Rule 90.176 (c). The CAPRAD database will reflect the approved application and place the channels for the proposed system in “pre-license” status.

3.7 Mexico Border Issues

On July 28, 2011 the United States and Mexico amended the "Protocol Between the Department of State of the United States of America and the Secretariat of Communications and Transportation of the United Mexican States Concerning the Allotment and Use of the 698-806 MHz Band for Terrestrial Non-Broadcasting Radio Communication Services Along the Common Border".

Region 50 shares a border with Mexico. **Any proposed 700 MHz radio site and corresponding mobile service area within 110 km (75 miles) of the Mexican border is subject to the border sharing agreement between the United States and Mexico.** The Counties of El Paso, Hudspeth, Culberson, Jeff Davis, Presidio, Brewster and Terrell are impacted by border spectrum agreements.

The border agreement defines specific criteria that applicants within the 110 km border Sharing Zone (68.35 miles) must adhere to. Spectrum within these areas is divided into U. S. primary and Mexico primary channels. *Under the existing agreement, channels in the range 769-771.5 MHz / 799-801.5 MHz are primary to the US within the Sharing Zone.* Specific criteria for the licensing of U.S. primary channels is provided in the border sharing agreement, which is included in Appendix J. Agencies are encouraged to select U. S. primary radio channels for new construction; go to: http://transition.fcc.gov/ib/sand/agree/ for the current 700 MHz spectrum requirements for Land Mobile Radio U. S. primary channel requirements.

It is not the responsibility of the RPC to enforce the border sharing agreement. The committee will evaluate all applications based upon the criteria set forth within the 700 MHz plan. Enforcement of the border sharing agreement will be handled directly by the FCC. This evaluation will take place following the submission of 700 MHz application to the FCC from the frequency coordinator.

Applicants are strongly encouraged to thoroughly review the new border sharing agreement, Appendix J. Radio systems should be designed to meet both the criteria of the Region 50: 700 MHz Plan and the border sharing agreement to assure proposed systems can be licensed. The RPC is not responsible for applications which are returned or dismissed by the FCC because of technical parameters relating to the border sharing agreement. It is the responsibility of the applicant to provide all necessary showings to the FCC to demonstrate adherence to the border sharing agreement. Showings to demonstrate compliance with the border sharing agreement should be completed before applications are submitted to the RPC to avoid lengthy delays if frequencies selected by the applicant are ultimately not licensable because of conflicts with the border sharing agreement.

Because 700 MHz assignments are restricted in border areas which occupy much of Region 50, the RPC recognizes the need to be flexible with frequency assignments so that the needs of all potential applicants can be met. Criteria established for the re-assignment of channels in frequency limited areas is provided in Section 3.5.

3.8 Assignment Disputes

An agency may protest a proposed system within 60 calendar days following the secretary's e-mail notification. Protests will only be considered if the objecting agency or the chairman can show that harmful interference is likely based on the information submitted in the application.

If an agency with licensed, or pre-licensed/region assigned, co-channel or adjacent channel assignments objects to a proposed assignment due to concerns about potential interference, the objecting agency may request field tests be done to confirm or refute the interference potential. The completion of these field tests will be required for Region 50 application approval. Service and interference contours of the proposed system(s) should meet values designated in Section 7.1 of this document. Any costs associated with field tests or any other requirements for obtaining regional approval are the responsibility of the agency submitting the application to Region 50. The parties involved must resolve the assignment dispute and notify the chairman within 120 calendar days. If the parties involved cannot resolve the assignment dispute within that time

frame, the dispute will be handled by the Dispute Resolution process described in section 2.4. If approved, the application will be submitted through the CAPRAD database to the applicant's chosen FCC-certified frequency coordinator for processing.

Any application that has been modified in any way that would change the systems' coverage or interference contours must be resubmitted in the same manner as the original application, and new 60 day e-mail notifications will be made.

3.9 NPSPAC Channels

If a 700 MHz applicant has not yet fully exhausted its 821 MHz (806 MHz after Rebanding) allotments, the 700 MHz RPC should encourage the applicant, where technically appropriate, to fully utilize their 821 MHz allotments first. The purpose for this is to ensure maximum utilization of all allotted spectrum with similar technical characteristics.

4. Priority Matrix

In the event that several requests for narrowband channel assignments conflict and cannot all be accommodated, the following scoring matrix will be used to determine priority for assignment. This matrix will only be used if two or more requests are received in the same filing window for the same channels. Otherwise, the first come first served procedure of Section 3.6.B will be used.

Priority is given to users fundamentally involved with the protection of life and property (15 points).

Disciplines Supporting Protection of Life and Property	Allotted Points	Point Tally
Law Enforcement	4	
Fire	4	
Emergency Medical Services (EMS)	4	
Public Works or Utilities	1	
Hospitals or Corrections	1	
Local Government or Emergency Management	1	
Total (Out of 15)		

Priority is given to multi-agency systems that promote multi-agency, inter-discipline interoperable communications. These systems can be either a group of separate departments within a large agency or groups of agencies operating together under a large blanket agency, or a combination of both (25 points).

Multi-Agency Inter-Discipline Communications	Allotted Points	Point Tally
Number of Agencies (1 point per agency up to a max of 15)	1-15	
System Supports Police, Fire, and EMS	10	
System Supports Two Public Safety Disciplines (Police & Fire, Police & EMS, or Fire & EMS)	6	
System Supports One Public Safety Discipline with Gateway Connections to Other Disciplines	3	

Total (Out of 25)	

Priority is given to systems that achieve spectrum efficiency through high levels of channel loading (25 points).

System Loading	Allotted Points	Point Tally
250+ subscriber radios per channel	25	
200 – 250 subscriber radios per channel	20	
150 – 200 subscriber radios per channel	15	
100 – 150 subscriber radios per channel	10	
75 – 100 subscriber radios per channel	5	
Total (Out of 25)		

Documentation of proposed funding and proof of financial commitment, accompanied by a Request for Proposal outlining the design of the proposed system and detailing the development of the requested channels (25 points).

Project Commitment	Allotted Points	Point Tally
Applicant Under Contract with Vendor	25	
RFP Developed and Released	20	
RFP Currently Being Developed	15	
Proof of Financial Commitment Provided	10	
Total (Out of 25)		

The percentage of the applicant's existing frequencies that will be available for re-use, e.g. give-back frequencies (10 points) .

Frequency Give-backs	Allotted Points	Point Tally
85 – 100% of frequencies returned	10	
70 – 85 % of frequencies returned	8	
55 – 70 % of frequencies returned	6	
40 – 55 % of frequencies returned	4	
25 – 40 % of frequencies returned	2	
Total (Out of 10)		

In the case of a tie, priority is given to the first application filed within a filing window, as determined by the CAPRAD posting date, postmark, or their equivalent (2 points).

Tie-Breaker	Allotted Points	Point Tally
Scoring of Previous Categories do not Result in a Tie	0	
First Application Filed Within Filing Window	2	
Total (Out of 2)		

The total score for each application will be tallied based upon the sub-total from each of the above listed categories.

Application Total Score	Allotted Points	Point Tally
Disciplines Supporting Protection of Life and Property	0-15	
Multi-Agency Inter-Discipline Communications	0-25	
System Loading	0-25	
Project Commitment	0-25	
Frequency Give-backs	0-10	
Tie-Breaker	0-2	
Total (Out of 100 + 2)		

This scoring process will be performed by the Peer Review / Dispute Resolution Subcommittee (see section 2.4) using the above criteria.

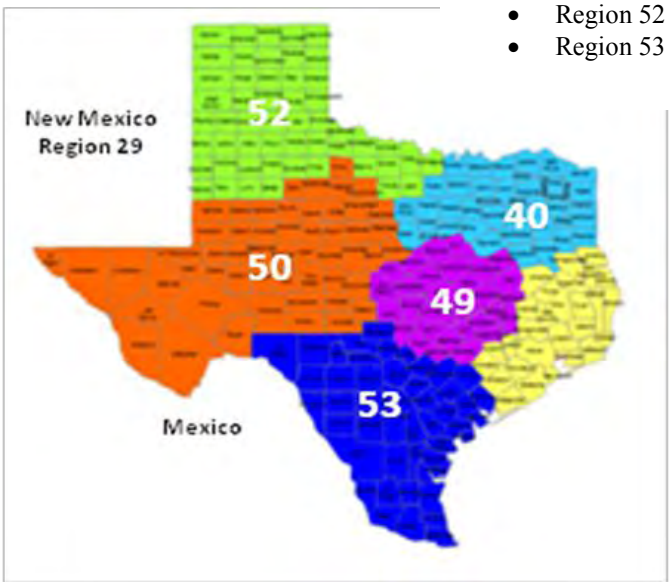
5. Process for handling unformed adjacent Regions

All four of the regions adjacent to Region 50 have formed their 700 MHz and/or 800 MHz committees and have elected their chairmen. Therefore, there is no need for a process for handling unformed adjacent regions.

6. Coordination with Adjacent Regions

The Regions adjacent to Region 50 are:

- Region 29 – New Mexico
- Region 40 – Texas – Dallas area
- Region 49 – Texas, Austin area
- Region 52 – Texas, Lubbock area
- Region 53 – Texas, San Antonio area



Region 50 has coordinated channel allotments and received concurrence from all its bordering regions by providing copies of this plan (including channel allotments) to each adjacent region using the CAPRAD database and e-mail, and by mailing hard copies of the plan to all adjacent regions' chairmen.

Region 50's plan will also be available for viewing by all interested parties via the CAPRAD 700 MHz database. The CAPRAD pre-coordination database can be used to determine which channels are available that will not interfere with Region 50 allotments or systems. The CAPRAD database and its associated packing plan provide minimum channel allotments for all of Region 50's bordering regions. This method was recommended by the NCC Implementation Subcommittee as a way to assure that adjacent regions, which did not enter the regional planning process immediately, would not find all frequencies already allotted or assigned at their borders.

Therefore, adjacent Regions 29, 40, 49, 52 and 53, should all be able to satisfy voice and narrowband data requests along their border areas with Region 50. However, if an adjacent region has difficulties satisfying intra-regional requests due to channel allocation within Region 50, this committee pledges to work with that adjacent region to resolve any issues that might hinder interoperability or reduce any benefit to public safety communications.

7. System Design / Efficiency Requirements

7.1 Interference Protection

The channel allotments are based on the assumption that systems will be engineered on an interference-limited basis, not a noise floor-limited basis. Agencies are expected to design their systems for maximum signal levels within their service area and minimum levels in the service areas of other co-channel users. A jurisdiction's service contour is normally the geographical boundaries of the agency served (its service area) plus an area three to five miles beyond. The three to five mile buffer outside the service area is intended to permit agencies to design systems which provide in-building coverage levels at the edge of the service area.

Systems should be designed for minimum signal strength of 50 dBu in the system's service contour, while minimizing signal power out of that area. TIA/EIA TSB88-A (or latest version) will be used to determine harmful interference, assuming 50 dBu, or greater, signal in all systems' service contours. This will likely require patterned antennas and extra sites compared to a design that assumes noise limited coverage.

Region 50 adopts the Okumura Hata Davidson propagation model as the standard for calculating interference protection. This model was selected because it produces a closed contour which is more conducive for contour based interference calculations and because the model is accurately reproduced in most propagation software packages.

To maximize spectrum utilization, prudent engineering practices and receivers of the highest quality must be used in systems. Given a choice of radios in a given technology family, agencies should choose the units with the best specifications. This plan will not protect agencies from interference if their systems are under-constructed (i.e., portions of the desired service area have signal strength less than 40 dBu), or utilize low quality receivers.

Region 50 adopts the interference protection recommendations listed in Appendix K of the Regional Planning Committee Guidelines published by the National Coordination Committee (NCC), and included in this plan as Appendix E.

7.2 Spectrum Efficiency Standards

It is the goal of the FCC for radio equipment to use one voice channel per 6.25 KHz of spectrum. Requests for channel assignments in Region 50 must include an acknowledgement of the 12/31/2016 deadline for converting all equipment to 6.25 KHz or 6.25 KHz equivalent technology. Where possible, narrowband 6.25 KHz channels may be aggregated for data use to a maximum bandwidth of 25 KHz. As 6.25 KHz migration continues, "orphaned" 6.25 KHz channels may be re-allotted to maintain consistent grouping and utilization of 25 KHz blocks (see Section 3.5).

Region 50 encourages small agencies to partner with other agencies in multi-agency or regional systems as they promote spectrum efficiency and both small and large agency capacity needs can be met. The FCC recommends "trunking" as the preferred technology for efficient frequency usage per 90.527(a)(6). Loading criteria can also be achieved in multi-agency systems that will allow greater efficiency for all agencies involved than could be achieved individually.

7.3 System Loading Criteria

Efficient use of spectrum requires minimum channel loading standards both for trunked and conventional system architectures. Subscriber loading for conventional systems in the 700 MHz band will be approved on a case-by-case basis.

For the purposes of calculating system loading, a talk-path will be defined as a single 12.5 kHz frequency. The region acknowledges that TDMA technologies are available today which split single frequencies into multiple talk paths. Talk paths will be defined as a single 6.25 kHz frequency for all systems which will be implemented after the FCC 700 MHz narrowbanding deadline. The region reserves the right to re-evaluate loading based upon 6.25 kHz talk paths for past assignments following the 700 MHz narrowbanding deadline if it is determined that insufficient spectrum exists to meet the needs of all applicants.

FCC rules require that systems using 6 or more channels use trunking technology. However, trunking may be used for systems with fewer channels. The following table indicates the minimum subscriber loading criteria within the 5 year slow-growth period for trunked systems in the 700 MHz band:

Subscriber units	Talk Paths (or equivalent)	Subscriber units	Talk Paths (or equivalent)
50-100	2	300-350	7
100-150	3	350-400	8
150-200	4	400-450	9
200-250	5	450-500	10
250-300	6		

Additional channels may be assigned for larger trunked systems at the rate of one additional talk path per 75 subscriber units exceeding 500 units. Applicants requesting additional frequencies to expand an existing trunking system must show a grade of service less than 1 % or demonstrate the need for an expansion in coverage which will necessitate additional channels. Grade of service is defined as the percentage of time that a user on the system experiences a busy signal longer than one second.

Justification for adding frequencies or retaining existing frequencies may be provided by a traffic loading study instead of loading by the count of subscriber units per talk path. It will be the responsibility of the applicant to provide a verifiable study showing sufficient airtime usage from an existing system, Erlang calculations, or loading simulation to merit additional frequencies. Documentation of airtime usage, excluding telephone interconnect air time, during the peak busy hour on three consecutive days will be required to demonstrate system loading of an existing trunked system.

It is also recognized that systems or sites may be licensed in Region 50 which are part of larger regional radio systems which may be networked, or have their master control in another region, and which allow for subscriber roaming throughout multiple regions. Loading for these systems or sites may consider the effects of system wide roaming, and will be determined on a case-by-case basis.

Should a demand for frequencies exist in the region after the supply of assignable frequencies has been exhausted, any system having frequencies assigned under this plan for four years or longer that is not loaded to a least 70 % of subscriber loading may be required to surrender one or more frequencies for reassignment .

7.4 Expansion of Existing 800 MHz Systems

Licensees of existing 800 MHz systems that wish to expand by using 700 MHz frequencies must meet the requirements of the FCC and both this 700 MHz plan and the Region 50: 800 MHz Public Safety Radio Communications Plan. If the two Region 50 plans are in conflict, the dispute resolution process outlined in Section 2.4 will be used on a case-by-case basis to determine which plan governs.

7.5 System Implementation

An agency may file a request with the RPC chairman for an extension of time to implement their system. The request should include all details describing why the system has not been implemented, and a new implementation schedule. The request will be processed in the same manner as an application for assignments (see Section 3.6.E), with any dispute handled according to Section 3.7. Extended implementation requests should align with “slow growth” requirements defined by the FCC. Requests for extended implementation may be considered up to a maximum period of 5 years.

8. Interoperability Channels

8.1 Introduction

The ability of agencies to effectively respond to mutual aid requests directly depends on their ability to communicate with each other. Texas is subject to a variety of natural disasters and includes facilities which may be susceptible to man-made disasters or weapons of mass destruction attacks. Mutual aid is required

among agencies. This plan supports the communications necessary for effective mutual aid, including, but not limited to, the use of Project 25 Common Air Interface standards and accepted common channel names for interoperability channels.

The addition of new communications systems on the 700 MHz band may increase overall interoperability challenges rather than lessen them. While some new 700 MHz systems may completely replace all legacy systems in some areas, most will probably add to the mix of communications options available in an area.

Therefore, as new 700 MHz systems are planned and deployed, it will be extremely important for their operators to be well informed about other legacy systems in all other bands that are operating in their area, or in areas where they may be called upon to provide mutual aid assistance. Since it is unlikely that the time will come when all public safety communications systems operate in a single frequency band with a single technology, only good system planning and cooperation will enable reasonable levels of interoperability to be sustained.

The most common strategy that has been followed in the past, and that this plan anticipates will be followed in Region 50 700 MHz system deployments, is the concept of new systems incorporating appropriate interoperability into their plans and designs, rather than expecting the legacy systems to figure out how to operate with the new system. New 700 MHz systems not only need to meet the interoperability requirements for that band; they also need to provide mechanisms to interoperate with VHF, UHF, and other users to a level that is appropriate for their circumstances.

The State of Texas administers the 700 MHz interoperability channels via the Texas Statewide Interoperability Executive Committee (TSIEC) under National Coordination Committee's (NCC) guidelines. The TSIEC has published technical and operational standards for use of the interoperability channels, and it is anticipated that the TSIEC will continue to expand and update these standards as necessary. The Region 50 - 700 MHz RPC supports the Texas Statewide Interoperability Executive Committee. If at any time the TSIEC is unable to function in the role of administering the interoperability channels in the 700 MHz band, this committee will assume that role in Region 50, and notify the FCC in writing of the change in administrative duties.

8.2 Tactical Channels

Due to the immediate availability of 700 MHz public safety channels in most areas of South Texas, Region 50 will not set aside additional channels for interoperability within the region. It is anticipated that the sixty-four FCC designated interoperability channels (6.25 KHz) will be sufficient to provide voice and data interoperability in Region 50.

All mobile and portable units operating under this plan and utilizing 700 MHz channels must be programmed with the minimum number of channels required either by NCC guidelines or by the TSIEC, whichever number is greater, both in the repeater and direct mode. Channel displays will be in accordance with the state or national guidelines that have common alphanumeric nomenclature to avoid any misinterpretation of their identity.

8.3 Deployable Systems

Region 50 strongly supports use of deployable systems. Deployable systems are prepackaged systems that can deploy by ground or air to an incident to provide additional coverage and capacity on designated 700 MHz interoperability channels and/or agency specific general use channels. This will minimize the expense of

installing extensive fixed infrastructure in all areas while still providing mission critical functionalities. The committee recognizes the difficulty of providing complete coverage in all areas due to financial, demographic and geographical constraints.

Agencies should have conventional deployable systems capable of being operated on any of the FCC designated and NCC/state/local recommended interoperability tactical channels. Those agencies that are part of a multi-agency trunked system and commonly provide mutual aid to each other are encouraged to have deployable systems that operate on the tactical channels designated by the FCC for this use. The TSIEC will develop the operational details for deploying these systems.

8.4 Monitoring of Calling Channels

700 MHz general use channel licensees in Region 50 will be responsible for monitoring interoperable calling channels in the manner prescribed by the TSIEC. Appendix D lists the 700 MHz Interoperability Channels (12.5 kHz) for mobile and portable configuration, the Temporary Calling Channel / Tactical Repeater Configuration, and Interoperability guidelines.
Operability and Interoperability can only be achieved if all radio equipment is programmed to the same protocols. As a matter of regional interoperability policy, all radio equipment must be programmed according to the Texas Statewide Interoperability Channel Plan (TSICP) and the National Interoperability Field Operations Guide. These documents will drive programming requirements for both local and vendor programming protocols within Region 50 regarding interoperability calling channels. Interoperability (Mutual Aid) Channel programming and the corresponding procedures embodied in these documents represent the single most significant step in increasing interoperability for the region utilizing 700MHz. Therefore; it is suggested that all radio equipment, irrespective of funding source, should follow the programming guidelines of the Texas Statewide Interoperability Channel Plan and the National Interoperability Field Operations Guide.

<u>Interoperability Calling Channel Monitoring:</u>
Each Public Safety Dispatch/Communications Center will monitor Interoperability Calling Channels as defined in the TSICP, if 700MHz equipped.
Non-Repeater Monitoring (Simplex operation): Calling Channel 7CALL50D will be monitored by dispatch.
Repeater Monitoring (Duplex operation): Calling Channel 7CALL50 will be monitored by dispatch.

<u>Interoperability Channel Operation</u>
As outlined in the TSICP, all FCC-designated interoperability repeaters are maintained in "receive mode" for monitoring purposes. Repeaters are disabled for transmit operation until needed for two-way communication. This prevents interference with repeaters in adjacent jurisdictions that operate on the same interoperability frequencies.

TSICP designated interoperability channels are simplex channels. Agencies operating on trunked radio systems must make provisions for switching off of trunked dispatcher controlled channels or have access to secondary radios capable of operation on simplex interoperability channels.
Mobile communications gateways must be capable of non-repeater or repeater supported monitoring of interoperability operations.

Local agency licensees holding older 7CALL50 or &CALL50D frequencies are strongly encouraged to keep localized, non-emergency traffic to a minimum and to curtail that activity during ongoing incidents.

9. Future Planning

The provisions in this plan, including, but not limited to, annual meetings, annual review of channel allotments, procedures for modification of allotments, and procedures for modification of the plan itself, constitute the provisions for future planning in Region 50.

10. Certification of Open Meetings

A certification that all planning committee meetings were open to the public and a description of the Region 50 deliberations of the committee pursuant to adopting this plan can be found in Appendix K. The meeting agendas and minutes can be found in Appendix C. A list of public participants can be found in Appendix B, and Appendix C.

BYLAWS OF THE

REGION 50 (EL PASO – WEST TEXAS)
700 MHZ REGIONAL PLANNING COMMITTEE

ARTICLE 1

NAME

Section 1. Regional Planning Committee: The name of this committee shall be the Region 50 (El Paso – West Texas), 700 MHz Regional Planning Committee, hereinafter referred to as "the Committee".

Section 2. Planning Area: The official name of the regional planning area designated as "Region 50" by the Federal Communications Commission (FCC) shall be the "El Paso – West Texas 700 MHz Regional Planning Area", hereinafter referred to as "the Planning Area". The Planning Area includes the fifty-five (55) counties within the Concho Valley Council of Governments, Permian Basin Regional Planning Commission, Rio Grande Council of Governments, and West Central Texas Council of Governments regions.

ARTICLE II

PURPOSE

The Committee's primary purpose is to foster cooperation between members, to develop a Regional Plan for use of the 700 MHz Public Safety band within the Planning Area, and to implement that plan. The committee is formed in accordance with 47 USC 90.257 and the procedures detailed in the Federal Communication's *First Report and Order and Third Notice of Proposed Rulemaking* (14 FCC Rcd 152), and the *Second Memorandum Opinion and Order* (15 FCC Rcd 16851).

ARTICLE III
MEMBERS

For purposes of this Article, the term "member," unless otherwise specified, refers to both voting and nonvoting members.

3.1 Number, Election and Qualification. The Regional Committee shall have two classes of members, "voting members" and "non-voting members." New members may be added at annual, special, or regular meetings.

A. Voting Members. Voting members shall consist of one representative from any agency engaged in public safety in the fifty-five (55) county West Texas area (the counties of El Paso, Culberson, Hudspeth,

Brewster, Jeff Davis, Presidio, Andrews, Borden, Crane, Dawson, Ector, Gaines, Glasscock, Howard, Loving, Martin, Midland, Pecos, Reeves, Terrell, Upton, Ward, Winkler, Brown, Callahan, Coleman, Comanche, Eastland, Fisher, Haskell, Jones, Kent, Knox, Mitchell, Nolan, Runnels, Scurry, Shackelford, Stephens, Stonewall, Taylor, Throckmorton, Coke, Concho, Crockett, Irion, Kimble, Mason, McCulloch, Menard, Reagan, Schleicher, Sterling, Sutton, and Tom Green) that is eligible to hold a license under 47 CFR 90.523 or 47 CFR 2.103. No single agency shall be allowed more than one member for each distinct eligibility category (e.g. police, fire, EMS, emergency management, public safety communications) within the agency's organization or political jurisdiction. When voting on any issue, upon the specific request of any member, the voting members must identify themselves and the agency and eligibility category which they represent. Voting members may not vote on issues involving their entity.

B. Non-Voting Members. Non-voting members are all others interested in furthering the goals of public safety communications.

3.2 Tenure. Each member shall hold membership from the date of acceptance until resignation or removal.

3.3 Powers and Rights. In addition to such powers and rights as are vested in them by law, or by these bylaws, the members shall have such other powers and rights as the membership may determine from time to time.

3.4 Suspension and Removal. A member may be suspended or removed with cause by vote of a two-thirds majority of voting members present at an annual, special, or regular meeting, after reasonable notice and an opportunity to be heard. Failure to attend 50% of meetings held in a calendar year, either in person or by proxy, may be a specific cause for removal from the membership.

3.5 Resignation. A member may resign by delivering written resignation to any officer of the Regional Committee or to a meeting of the members.

3.6 Proxies. Voting members may vote either in person (teleconference participation accepted) or by written proxy, which proxies shall be filed with the secretary or other person responsible for recording the proceedings of the meeting. Unless otherwise specifically limited by their terms, such proxies shall entitle the holders thereof to vote at any adjournment of any meeting. The proxy shall terminate after the final adjournment of such meeting.

ARTICLE IV
OFFICERS AND AGENTS

4.1 Number and qualification. The officers of the Regional Committee shall be a chairman, vice-chairman, secretary and such other officers, if any, as the voting members may determine.

4.2 Election. The officers shall be elected by the voting members at the convening meeting and, thereafter, every five years beginning at the annual meeting in 2017.

4.3 Tenure. The officers shall each hold office for a term of three years, or until their successor, if any, is chosen, or in each case until he or she sooner dies, resigns, is removed or becomes disqualified.

4.4 Chairman. The chairman shall be the chief executive officer of the Regional Committee and, subject to the control of the voting members, shall have general charge and supervision of the affairs of the Regional Committee. The chairman shall preside at all meetings of the Regional Committee. The

chairman shall not vote or make motions throughout the course of any meeting. The chairman may vote in the event of a tie in order to break the tie.

4.5 Vice-Chairman. The vice-chairman will temporarily assume the duties of the chairman if for any reason the chairman is absent from, or otherwise unable to serve, at any Committee meeting.

4.6 Secretary. The secretary shall record and maintain records of all proceedings of the members in a file or series of files kept for that purpose, which file or files shall be kept within the Region and shall be open at all reasonable times to the inspection of any member. Such file or files shall also contain records of all meetings and the original, or attested copies, of bylaws and names of all members and the address (including e-mail address, if available) of each. If the secretary is absent from any meeting of members, a temporary secretary chosen at the meeting shall exercise the duties of the secretary at the meeting. Additionally, the secretary shall act as the chief financial officer and the chief accounting officer of the Regional Committee. The secretary shall be in charge of its financial affairs, funds, and valuable papers and shall keep full and accurate records thereof.

4.8 Suspension or Removal. An officer may be suspended with cause by vote of two-thirds majority of the voting members present.

4.9 Resignation. An officer may resign by delivering his or her written resignation to any other officer of the Regional Committee. Such resignation shall be effective upon receipt (unless specified to be effective at some other time), and acceptance thereof shall not be necessary to make it effective unless it so states.

4.10 Vacancies. If the office of any officer becomes vacant, the voting members may elect a successor. Each such successor shall hold office for the remainder terms, and in the case of the chairman, vice-chairman, treasurer and secretary until his or her successor is elected and qualified, or in each case until he or she sooner dies, resigns, is removed or becomes disqualified.

ARTICLE V
MEETINGS

5.1 Annual Meetings. An annual meeting of the members shall be held at a previously agreed upon location within the planning area in March of each year. If an annual meeting is not held as herein provided, a special meeting of the members may be held in place thereof with the same force and effect as the annual meeting, and, in such case, all references in these bylaws, except in this Section 5.1, to the annual meeting of the members shall be deemed to refer to such special meeting. Any such special meeting shall be called and notice shall be given as provided in Sections 5.2 and 5.4.

5.2 Special Meetings. Special meetings of the members may be held at any time and at any place within the regional area. Special meetings of the members may be called by the chairman, or in case of death, absence, or incapacity, by any other officer, or upon written application to the secretary of two or more members.

5.3 Quarterly Meetings. Quarterly meetings of the committee may be held in June, September, and December of each year at a location to be determined by the Committee. It is the prerogative of the Chairman to cancel any regular quarterly meeting at which there is no business to be conducted.

5.4 Call and Notice.

A. Meetings. Reasonable notice of the time and place of annual, special, and regular meetings of the members shall be given to each member. Such notice must specify the purposes of the meeting.

B. Reasonable and sufficient notice. Except as otherwise expressly provided, it shall be reasonable and sufficient notice to a member to send notice by mail at least fifteen (15) business days, or by e-mail/facsimile at least ten (10) business days before the meeting, addressed to such member at his or her usual or last known business address, or, to give notice to such member in person or by telephone at least ten (10) business days before the meeting. Notice shall include all pertinent location, teleconference dial-in, or webinar log-in information.

5.5 Quorum. A quorum consists of voting members present, including teleconferencing voting members.

5.6 Action by Vote. Each voting member shall have one vote; non-voting members have no right to vote. When a quorum is present at any meeting, a majority of the votes cast by the voting members present shall decide any question, including election to any office, unless otherwise provided by law or by these bylaws.

5.7 Action by Writing. Any action required or permitted to be taken at any meeting of the members may be taken without a meeting if a majority of the members who respond consent to the action in writing. Written consents are filed with the records of the meetings of the members. Such consents shall be treated for all purposes as a vote at a meeting.

ARTICLE VI
AMENDMENTS

These bylaws may be altered, amended or repealed in whole or in part. The voting members present may by a two-thirds vote, alter, amend, or repeal any bylaws adopted by the Regional Committee members or otherwise adopt, alter, amend or repeal any action taken by the voting members.

ARTICLE VII
DISSOLUTION

If for any reason this Regional Committee is dissolved as approved by the FCC any assets remaining shall be distributed to one or more regularly organized and qualified charitable, educational, scientific or philanthropic organization(s) selected by those members in attendance at this special called meeting. The FCC shall be notified.

ARTICLE VIII
RULES OF PROCEDURES

The conduct of regional meetings including, without limitation, debate and voting, shall be governed by Robert's Rules of Order Newly Revised 11th edition, Henry M. Robert III, Daniel H. Honeman, Thomas J. Balch, Daniel E. Seabold, and Shmuel Gerber.

Region 53 San Antonio, South Texas
Membership List

This membership list is sorted by the Councils of Government (e.g. CVCOG) which make-up the Region 50 RPC area. Appendix B also includes a State and Federal participant list, and a Public participant list. The lists show all individuals that participated in the development of the Region 50 Plan by attending a meeting and/or via WebEx, plus non-active individuals such as County Sheriffs, COG Subject Matter Experts and others requesting membership.

The Region 50 RPC is always open to new members. The membership list will be revised as new members are identified.

County	First Name	Last Name	Title	Agency	Email	Mailing Address	City	St	Zip		Voting Member
	Concho Vallley COG Contacts										
CVCOG	Jeffrey	Sutton	Exe.Dir.	CVCOG	jsutton@cvcog.org	PO Box 60050	San Angelo	TX	76906-0050	325-944-9666	**Y**
CVCOG	Jim	Koca	HLS Dir.	CVCOG	jim@cvcog.org	2801 W. Loop 306, Suite A	San Angelo	TX	76904	325-944-9666	**Y**
CVCOG	Nicole	Gonzalez	HLS Planner	CVCOG	nicole@cvcog.org	2801 W. Loop 306, Suite A	San Angelo	TX	76904	325-944-9666	**Y**
CVCOG	Hilda	Garbay	9-1-1 Mgr	CVCOG	hilda@cvcog.org	2801 W. Loop 306, Suite A	San Angelo		76904	325-944-9666	**Y**
CVCOG	Bea	Ramsey	Asst. Emer. Prepardness/ CERT Coord.	CVCOG	bea@cvcog.org	2801 W. Loop 306, Suite A	San Angelo	TX	76904	325-944-9666	**Y**
COKE	Wayne	McCutchen	Sheriff	Co. Sheriff's Office	cokeso@co.coke.tx.us	PO Box 9	Robert Lee	TX	76945-0009	325-453-2717	**Y**
	Roy	Blair	County Judge	Coke County	roy.blair@co.coke.tx.us	13 East 7th	Robert Lee	TX	76945	325-453-2641	**Y**
CONCHO	Richard	Doane	Sheriff	Co. Sheriff's Office	sheriff@co.concho.tx.us	PO Box 67	Paint Rock	TX	76866-0067	325-732-4312	**Y**
	Allen	Amos	County Judge	County Judge		P. O. Box 158	Paint Rock	TX	76866	325-732-4321	**Y**
CROCKETT	Roy Glenn	Sutton	Sheriff	Co. Sheriff's Office	ccsorsutton@wcc.net	PO Box 1931	Ozona	TX	76943-1931	325-392-2661	**Y**
	Fred	Deaton	County Judge	Crockett County		P. O. Box 1857	Ozona	TX	76943	325-392-2965	**Y**
IRION	Jimmy	Martin	Sheriff	Co. Sheriff's Office	jimmy.martin@co.irion.tx.us	PO Box 859	Mertzon	TX	76941-0859	325-835-2551	**Y**
	Tom	Aiken	County Judge	Irion County	tom.aiken@co.iron.tx.us	P. O. Box 770	Mertzon	TX	76941	325-835-4361	**Y**
KIMBLE	Hilario	Cantu	Sheriff	Co. Sheriff's Office	hilario.cantu@co.kimble.tx.us	415 Pecan Street	Junction	TX	76849	325-446-2766	**Y**
	Andrew	Murr	County Judge	Kimble County	andrew.murr@co.kimble.tx.us	501 Main Street	Junction	TX	76840	325-446-2724	**Y**
MASON	"Buster"	Nixon	Sheriff	Co. Sheriff's Office	mcsobuster600@verizon.net	PO Box 391	Mason	TX	76856-0391	325-347-5252	**Y**
	Jerry	Bearden	County Judge	Mason County		P. O. Box 1726	Mason	TX	76856	325-347-5556	**Y**
McCULLOCH	Earl	Howell	Sheriff	Co. Sheriff's Office	mccullochso@yahoo.com	300 W Main	Brady	TX	76825	325-597-2290	**Y**
McCULLOCH	Charlie	Derrick	Police Chief	City of Brady	cderrick@cityofbrady.com	209 S Elm	Brady	TX	76825	325-597-2121	**Y**
	Danny	Neal	County Judge	McCullouch County	judgeneal@hotmail.com	199 Courthouse Square Rm 302	Brady	TX	76825	325-597-0733 x 4	**Y**
MENARD	Buck	Miller	Sheriff	Co. Sheriff's Office	menardcountyso@yahoo.com	PO Box 307	Menard	TX	76859-0307	325-396-4705	**Y**
	Richard	Cordes	County Judge	Menard County		P. O. Box 1038	Menard	TX	76859	325-396-4682	**Y**
REAGAN	Jeff	Garner	Sheriff	Co. Sheriff's Office	jgarner@reagancounty.org	PO Box 832	Big Lake	TX	76932-0832	325-884-2424	**Y**
	Larry	Isom	County Judge	Reagan County		P. O. Box 100	Big Lake	TX	76932	325-884-2665	**Y**
SCHLEICHER	David	Doran	Sheriff	Co. Sheriff's Office	drdoran@sccn2.net	PO Box 1119	Eldorado	TX	76936-1119	325-853-2737	**Y**
	Johnny	Griffin	County Judge	Schleicher County		County Courthouse	Eldorado	TX	76936	325-853-2766	**Y**
STERLING	Tim	Sanders	Sheriff	Co. Sheriff's Office	sc601@verizon.net	PO Box 928	Sterling City	TX	76951-0928	325-378-4771	**Y**
	Ralph	Sides	County Judge	Sterling County		P. O. Box 819	Sterling City	TX	76951	325-378-3481	**Y**
SUTTON	Joe	Fincher	Sheriff	Co. Sheriff's Office	suttonsheriff@verizon.net	309 N E Oak Street	Sonora	TX	76950	325-387-2288	**Y**
	Carla	Garner	County Judge	Sutton County		P. O. Box 1212	Sonora	TX	76950	325-387-2711	**Y**
TOM GREEN	John Truman	Richey	Sheriff	Co. Sheriff's Office	truman.richey@co.tom-green.tx.us	222 W Harris Ave	San Angelo	TX	76903	325-655-8111	**Y**
	Steve	Mild	COML	Co. Sheriff's Office	Steve.Mild@co.tom-green.tx.us	223 W Harris Ave	San Angelo	TX	76903	325-655-8111	**Y**
TOM GREEN	Mike	Brown	County Judge	Tom Green County	mike.brown@co.tom-green.tx.us	112 W. Beauregard	San Angelo	TX	76903	325-653-3318	**Y**
	Bucky	Hasty	IT	City of San Angelo	bucky.hasty@sanangelotexas.us					325-657-4439	**Y**
	Permian Basin Regional Planning Commission Contacts										

Region 53 San Antonio, South Texas
Membership List

COG	Terri	Moore	Exe.Dir.	PBRPC	tmoore@pbrpc.org	PO Box 60660	Midland	TX	79711-0660	432-563-1061	**Y**
COG	Barney	Welch	HLS Dir.	PBRPC	bwelch@pbrpc.org	PO Box 60660	Midland	TX	79711-0660	432-563-1061	**Y**
COG	Bonnie	Clark	HLS Planner	PBRPC	bclark@pbrpc.org	PO Box 60660	Midland	TX	79711-0660	432-563-1061	**Y**
COG	Gail	Robinette	9-1-1 Dir.	PBRPC	gail.robinette@pbrpc911.org	PO Box 60660	Midland	TX	79711-0660	432-563-1061	**Y**
JRAC	Connie	Thompson	Executive Dir.	JRAC	txjrac.connie@att.net	2910 LaForce Blvd	Midland	TX	79706	432-563-0672	**Y**
ANDREWS	Mike	Cook	EMC/911 Supervisor	Andrews County	mcook@co.andrews.tx.us		Andrews	TX	79714	432-523-5545	**Y**
	Sam	Jones	Sheriff	Co. Sheriff's Office	sjones@co.andrews.tx.us	201 N Main Rm 113	Andrews	TX	79714	432-523-5545	**Y**
	Shannan	Clawson	RN	Permian Regional Medical Center	sclawson78@hotmail.com	P.O. Box 2108	Andrews	TX	79714	432-464-2177	**Y**
BORDEN	Benny	Allison	EMC/Dep Sheriff	Borden CO	borcenco_emc@yahoo.com	P.O. Box 115	Gail	TX	79738-0115	806-756-4431	**Y**
	Billy	Gannaway	Sheriff	Co. Sheriff's Office	billy.gannaway@co.borden.tx.us	PO Box 115	Gail	TX	79738-0115	806-756-4431	**Y**
CRANE	Roy	McGaa	EMC	City of Crane	mmcgaa@att.net	115 W 6th Street	Crane	TX	79731	432-558-1008	**Y**
	Robert	DeLeon	Sheriff	Co. Sheriff's Office	sheriff@co.crane.tx.us	PO Box 1175	Crane	TX	79731-1175	432-558-3571	**Y**
DAWSON	Fred	Vera	EMC	City of Lamesa	fvera@ci.lamesa.tx.us	307 N 1st Street	Lamesa	TX	79331	806-872-2124	**Y**
	Kent	Parchman	Sheriff	Co. Sheriff's Office	sheriff@lamesa.esc17.net	PO Box 1268	Lamesa	TX	79331-1268	806-872-7560	**Y**
ECTOR	Pat	Patton	Assistant EMC	Ector County	pattopj@co.ector.tx.us	PO Box 2066	Odessa	TX	79760	432-498-4025	**Y**
	Chuck	Moad	Comms Officer	Odessa PD	cmoad@odessa-tx.gov	205 N. Grant Ave.	Odessa	TX	79761	(432) 335-3362	**Y**
	Mark	Donaldson	Sheriff	Co. Sheriff's Office	markdonaldson@ectorcountysheriff.net	PO Box 2066	Odessa	TX	79760-2066	432-335-3050	**Y**
GAINES	Chad	Hallum	EMC	Gaines County	chad.hallum@co.gaines.tx.us	101 S Main St	Seminole	TX	79360	432-758-4031	**Y**
	Jon	Key	Sheriff	Co. Sheriff's Office	seminole_so_2005@yahoo.com	301 East Ave A	Seminole	TX	79360	432-758-9871	**Y**
	Brian	Taylor		Seminole EMS	chad.hallum@co.gaines.tx.us		Seminole				**Y**
	Ray	Siera		Hospital	chad.hallum@co.gaines.tx.us		Seminole				**Y**
GLASSCOCK	Kim	Halfmann	County Judge/EMD/EMC	Glasscock County	kim.halfmann@co.glasscock.tx.us	P.O. Box 67	Garden City	TX	79739	432-523-5545	**Y**
	Keith	Burnett	Sheriff	Co. Sheriff's Office	gcsheriff@crcom.net	P.O. Box 89	Garden City	TX	79739	432-354-2361	**Y**
HOWARD	Terry	Chamness	EMC	Howard Co/City of Big Spring	tchamness@bigspringpd.net	610 S. Main St.	Big Spring	TX	79720	432-267-1900	**Y**
	Stan	Parker	Sheriff	Co. Sheriff's Office	stan.parker@co.howard.tx.us	PO Box 1149	Big Spring	TX	79721-1149	432-264-2244	**Y**
	Lance	Telchick		Big Spring PD	ltelchik@bigspringpd.net		Big Spring	TX		432-264-2570	
LOVING	Harlan	Hopper	EMC	Loving CO	hbhopper@windstream.net	PO Box 104	Mentone	TX	79754	432-940-7934	**Y**
	Billy	Hopper	Sheriff	Co. Sheriff's Office	hopb37@yahoo.com	PO Box 104	Mentone	TX	79754-0104	432-377-2411	**Y**
MARTIN	Nat	Broadway	EMC	Martin County	natb79782@yahoo.com			TX		432-685-2557	**Y**
	John	Woodward	Sheriff	Co. Sheriff's Office	m1mcso@yahoo.com	301 N. St. Peter	Stanton	TX	79782	432-756-3336	**Y**
MIDLAND	Dale	Little	EMC/Co. Fire Marshall	Midland CO/City of Midland	dale_little@co.midland.tx.us	2435 E Hwy 80	Midland	TX	79706	432-688-4160	**Y**
MIDLAND	David	Flores	Communications Technician/COML	City of Midland	dflores@midlandtexas.gov		Midland	TX		432- 685-7550	**Y**
	B John	McDaniel	Radio Communications	Midland CO SO	bjohn@bjmcdaniel.net	PO Box 11287	Midland	TX	79701-1287	432-688-4620	**Y**
	Gary	Painter	Sheriff	Co. Sheriff's Office	gary_painter@co.midland.tx.us	PO Box 11287	Midland	TX	79701-1287	432-688-4600	**Y**
PECOS	Josh	Ureta	EMC	Pecos Co.	joshua.ureta@co.pecos.tx.us	PO Box 1647	Fort Stockton	TX	79735-1647	432-923-3737	**Y**
PECOS	Cliff	Harris	Sheriff	Co. Sheriff's Office	pcsheriff@co.pecos.tx.us	PO Box 1647	Fort Stockton	TX	79735-1647	432-336-3521	**Y**
REEVES	Ricky	Herrerra	EMC	Reeves Co.	reevesm@nwol.net			TX		432-447-3542	**Y**
	"Andy"	Gomez	Sheriff	Co. Sheriff's Office	arnulfo.gomez@co.reeves.tx.us	500 S. Oak Street	Pecos	TX	79772-0910	432-445-4901	**Y**
TERRELL	Santiago	Flores	County Judge/EMD/DMC	Terrell County	santiago.flores@co.terrell.tx.us	P.O. Drawer 4810	Sanderson	TX	79848	432-345-2421	**Y**
	"Clint"	McDonald Jr.	Sheriff	Co. Sheriff's Office	tcso222@yahoo.com	PO Box 320	Sanderson	TX	79848-0320	432-345-2525	**Y**

UPTON	Joe	Kilgore	EMC	Upton Co.	cpl_joe6133@yahoo.com			TX		432-693-7037	Y
	Dan	Brown	Sheriff	Co. Sheriff's Office	sheriff@upton.cotx.com	P.O. Box 27	Rankin	TX	79778	432-693-2422	Y
WARD	Frarin	Valle	EMC	Ward Co.	frarin.valle@co.ward.tx.us	300 E. 4th St	Monahans	TX	79756	432-943-5551	Y
WARD	Mikel	Strickland	Sheriff	Co. Sheriff's Office	mikel.strickland@co.ward.tx.us	300 E 4th Street	Monahans	TX	79756	432-943-6703	Y
WINKLER	Charles	Wolf	EMC	Winkler County	winkler-emc@att.net		Kermit	TX		432-586-2035	Y
	George	Keely	Sheriff	Co. Sheriff's Office	wcso@co.winkler.tx.us	PO Box 860	Kermit	TX	79745-0860	432-586-3461	Y
Rio Grande COG											
COG	Annette	Gutierrez	Exe.Dir.	RGCOG	annetteg@riocog.org	1100 N. Stanton, Suite 610	El Paso	TX	79902	915-533-0998 x114	Y
COG	Grace	Munoz	Emer. Prepardness Planner	RGCOG	gracem@riocog.org	1100 N. Stanton, Suite 610	El Paso	TX	79902	915-533-0998 x166	Y
COG	Marisa	Quintanilla	911 Director	RGCOG	marisaq@riocog.org	1100 N. Stanton, Suite 610	El Paso	TX	79902	915-533-0998 x119	Y
COG	Michael	Ada	Special Projects Dir.	RGCOG	michaela@riocog.org	1100 N. Stanton, Suite 610	El Paso	TX	79902	915-533-0998 x121	Y
BREWSTER	Ronny	Dodson	Sheriff	Co. Sheriff's Office	801dodson@sbcglobal.net	201 W Ave E	Alpine	TX	79830	432-837-3488	Y
BREWSTER	Val	Beard	Judge	Brewster County	val.beard@co.brewster.tx.us	PO Box 1630	Alpine	TX	79831	432-837-2412	Y
CULBERSON	Oscar	Carrillo	Sheriff	Co. Sheriff's Office	culbersoncounty@msn.com	PO Box 159	Van Horn	TX	79855-0159	432-283-2060	Y
CULBERSON	Carlos	Urias	Judge	Culberson County	carlos.urias@co.culberson.tx.us	PO Box 927	Van Horn	TX	79855	432-283-2059	Y
EL PASO	Richard	Wiles	Sheriff	Co. Sheriff's Office	rwiles@epcounty.com	3850 Justice Dr.	El Paso	TX	79938	915-538-2217	Y
EL PASO	Frank	Mendez	Comm. Coordinator	City of El Paso	medezf@elpasotexas.gov	8600 Montana, Suite C	El Paso	TX	79925	915-791-2659	Y
EL PASO	Joe G.	Nevarez		El Paso Electric	jnevarez@epelectric.com	PO Box 982	El Paso	TX	79960	915-543-5719	Y
EL PASO	Miguel	Rico		Co. Sheriff's Office	mrico@epcounty.com	3850 Justice Dr.	El Paso	TX	79938	915-538-2163	Y
EL PASO	Ray	Rodriguez	Assistant Chief	UTEP Police Dept	rrodriguez45@utep.edu	3118 Sunbowl Drive	El Paso	TX	79968	915-747-6636	Y
EL PASO	Cliff	Walsh	Chief	UTEP Police Dept	cwalsh@utep.edu	3118 Sunbowl Drive	El Paso	TX	79968	915-747-6140	Y
EL PASO	Hector	Rubio		UTEP	hrubio@utep.edu	3118 Sunbowl Drive	El Paso	TX	79968	915-747-6140	Y
EL PASO	Kent	Wimmer		UTEP	kwimmer@utep.edu	3118 Sunbowl Drive	El Paso	TX	79968	915-747-6140	Y
EL PASO	William	Araiza			wvaraiza@episd.org		El Paso	TX			Y
EL PASO	Bill	Adler		EP ESD #2	badler@epcountyesd2.org					915 588 3473	Y
EL PASO	Ph.D.	Mike	Chief	Horizon City PD	chief@horizoncity.org	14999 Darrington Road	Horizon City	TX	79928	915-852-1047	Y
EL PASO	Alejandro	Sanchez	Chief	Clint Police Department	clintpd@gmail.com	109 FM 1110	Clint	TX	79836	915-851-1600	Y
EL PASO	Jorge	Perez		Clint Police Department	clintpd@gmail.com	109 FM 1110	Clint	TX	79836	915-851-1600	Y
HUDSPETH	Arvin	West	Sheriff	Co. Sheriff's Office	awest@hudspethsheriff.org	PO Box 39	Sierra Blanca		79851-0039	915-369-2141	Y
HUDSPETH	Glennda	Merrit-Alcorn	EMS/Fire Administrator	Northern Hudspeth County EMS	glennda5@dellcity.com	P.O. Box 594	Dell City		79837	432-940-7349	Y
PRESIDIO	Danny	Dominguez	Sheriff	Co. Sheriff's Office	danny.dominguez@sbcglobal.net	PO Box V	Marfa	TX	79843	432-729-4308	Y
PRESIDIO	Paul	Hunt	Judge	Presidio County	elijuez@att.net	County Courthouse	Marfa	TX		432-729-4452	Y
Ysleta Del Sur Pueblo	Josh	Garcia	Emer. Mgmt. Coordinator	YDSP OEM	jgarcia@ydsp-nsn.gov	119 South Old Pueblo Road	El Paso	TX	79907	915-859-7913	Y
Ysleta Del Sur Pueblo	Ralph	Johnson	Fire Chief	YDSP FD	rjohnson@ydsp-nsn.gov	119 South Old Pueblo Road	El Paso	TX	79907	915-859-7913	Y
Ysleta Del Sur Pueblo	Rick	Ornelas	MIS Director	YDSP MIS	rornelas@ydsp-nsn.gov	119 South Old Pueblo Road	El Paso	TX	79907	915-859-7913	Y
Ysleta Del Sur Pueblo	Steve	Cordova	OEM	YDSP OEM	Scordova@ydsp-nsn.gov	120 South Old Pueblo Road	El Paso	TX	79907	915-859-7913	Y
Ysleta Del Sur Pueblo	Frank K.	Paiz	Tribal Governor	YDSP	fpaiz@ydsp-nsn.gov	119 South Old Pueblo Road	El Paso	TX	79907	915-859-8053	Y
West Central Texas Council of Governments Contacts											
COG	Tom	Smith	Exe.Dir.	WCTCOG	tsmith@wctcog.org	3702 Loop 322	Abilene	TX	79602-7300	325-672-8544	Y
COG	Tom	Mann	HLS Dir.	WCTCOG	tmann@wctcog.org	3702 Loop 322	Abilene	TX	79602-7300	325-672-8544	Y
BROWN	Bobby	Grubbs	Sheriff	Co. Sheriff's Office	bcso@web-access.net	1050 W Commerce	Brownwood	TX	76801	325-646-5510	Y

Region 53 San Antonio, South Texas
Membership List

CALLAHAN	John	Windham	Sheriff	Co. Sheriff's Office	john.windham@callahancounty.org	432 Market St	Baird	TX	79504	325-854-1444	Y
COLEMAN	Joe	Watson	County Judge		county.judge@yahoo.com	100 Liveoak St, Suite 102	Coleman	TX	76834	325- 625-4218	
COLEMAN	Wade	Turner	Sheriff	Co. Sheriff's Office	3506@web-access.net	100 Liveoak St, Suite 101	Coleman	TX	76834	325-625-3506	Y
COMANCHE	Jeff	Lambert	Sheriff	Co. Sheriff's Office	jefflambert_ccso@yahoo.com	300 Industrial Blvd	Comanche	TX	76442	325-356-7533	Y
EASTLAND	Wayne	Bradford	Sheriff	Co. Sheriff's Office	wayne@eastlandcountytexas.com	201 W White St	Eastland	TX	76448	254-629-1774	Y
EASTLAND	Judge Rex	Fields	Emerg. Mgmt. Coordinator	Eastland County	ecjudge@eastlandcountytexas.com	100 W Main St, Ste 203	Eastland	TX	76488	254-629-1263 x6076	Y
FISHER	J A	Robinson	Sheriff	Co. Sheriff's Office	fcsorobinson@yahoo.com	PO Box 370	Roby	TX	79543-0370	325-776-2273	Y
FISHER	Melodie	Gonzales	EMS/Safety Coordinator	Fisher County	melodie.gonzales@co.fisher.tx.us	PO Box 126	Roby	TX	79543-0126	325-776-3256	Y
HASKELL	David	Halliburton	Sheriff	Co. Sheriff's Office	haskcoso@wtxs.net	PO Box 675	Haskell	TX	79521-0675	940-864-2345	Y
JONES	Larry	Moore	Sheriff	Co. Sheriff's Office	jonescoso@sbcglobal.net	PO Box 821	Anson	TX	79501-0821	325-823-3201	Y
KENT	William	Scogin	Sheriff	Co. Sheriff's Office	sheriff@kentcountysherifftx.com	PO Box 7	Jayton	TX	79528-0007	806-237-3801	Y
KENT	Nathan	Brooks	Chief	Kent County VFD		PO Box 30	Jayton	TX	79528	806-786-5103	Y
KNOX	Dean	Homstad	Sheriff	Co. Sheriff's Office	whitenite40@yahoo.com	PO Box 257	Benjamin	TX	79505-0257	940-459-2211	Y
KNOX	Judge Travis	Floyd	Emerg. Mgmt. Coordinator	Knox County	tfloyd@srcaccess.net	100 W Cedar Street	Benjamin	TX	79505	940-459-2191	Y
MITCHELL	Patrick	Toombs	Sheriff	Co. Sheriff's Office	mitcoso@wtxs.net	320 Pine St	Colorado City	TX	79512	325-728-5261	Y
NOLAN	David	Warren	Sheriff	Co. Sheriff's Office	dwarren@nolanso.com	100 E 3rd St, Ste 110	Sweetwater	TX	79556	325-235-5471	Y
RUNNELS	William "Bill"	Baird	Sheriff	Co. Sheriff's Office	sheriff@wcc.net	612 Strong Ave	Ballinger	TX	76821	325-365-2121	Y
SCURRY	Darren	Jackson	Sheriff	Co. Sheriff's Office	darren@scurrycountysheriff.com	1300 26th St.	Snyder	TX	79549	325-573-3551	Y
SHACKELFORD	Edward	Miller	Sheriff	Co. Sheriff's Office	sheriff.miller@shackelfordcosheriff.com	PO Box 2620	Albany	TX	76430	325-762-2000	Y
STEPHENS	Dan	Young	Sheriff	Co. Sheriff's Office	scso@texasisp.com	200 W Walker	Breckenridge	TX	76424	254-559-2178	Y
STONEWALL	Bill	Mullen	Sheriff	Co. Sheriff's Office	stonewallcdsd@srcaccess.net	PO Box 388	Aspermont	TX	79502-0388	940-989-3333	Y
TAYLOR	Les	Bruce	Sheriff	Co. Sheriff's Office	brucel@taylorcountytexas.org	450 Pecan St	Abilene	TX	79602	325-674-1300	Y
TAYLOR	Greg	Goettsch	F D Lieutenant	City of Abilene	greg.goettsch@abilenetx.com		Abilene	TX		325 676 6436	Y
TAYLOR	Jerry	Reiling		Abilene	Jerry.reiling@abilenetx.com	450 Pecan St	Abilene	TX	79563	325 676 6436	Y
THROCKMORTON	John	Riley	Sheriff	Co. Sheriff's Office	throckso@tgncable.com	PO Box 578	Throckmorton	TX	76483	940-849-9421	Y

State and Federal Agency Contacts

State	Todd	Early	Dep.Assist.Dir; SWIC	TxDPS	todd.early@txdps.state.tx.us	5806 N. Lamar-Bldg G	Austin	TX	78752	512-424-2121
State	Mike	Barney	Technical Services Mgr	TxDPS	mike.barney@dps.texas.gov	5807 N. Lamar-Bldg G	Austin	TX	78752	512-424-7908
State	Gabriella	McKittrick		TxDPS	gabriella.mckittrick@dps.texas.gov	5807 N. Lamar-Bldg G	Austin	TX	78752	512-424-7523
State	Joe	Jarrett	Frequency Coord.	TxDPS	joe.jarrett@dps.texas.gov	5806 N. Lamar-Bldg G	Austin	TX	78752	512-424-5406
State	Karla	Jurrens	PMP	TxDPS	karla.jurrens@dps.texas.gov	5806 N. Lamar-Bldg G	Austin	TX		
State	Carol	Sutherland	Strategic Communications	TxDPS	carol.sutherland@dps.texas.gov	6810 Apaloosa Way	San Antonio	TX	78256	210-844-8969
	Lanny	Hooper	CAM		lanny.hooper@dps.texas.gov	2405 S. Loop 250W	Midland		79703	432-498-2135
State	David	Abernathy	Assist. Chief	TFS	dabernathy@tfs.tamu.edu	P.O.Box 1000	Pittsburg	TX	75686	979-219-2402
State	Paul	Gilbert	Traffic Systems Specialist	TxDOT	paul.gilbert@txdot.gov	125 E. 11th Street	Austin	TX	78701	512-733-3035
State	David	Marquez	Region A Coord.	TxDPS	david.marquez@dps.state.tx.us	11612 Scott Simpson	El Paso	TX	79936	432-837-7544
State	Ray	Resendez	Region B Coord.	TxDPS	ray.resendez@txdps.state.tx.us	11612 Scott Simpson	El Paso	TX	79936	915-849-4005
State	Martin	Widtfeldt	District 4B Coord.	TxDPS	martin.widtfeldt@dps.texas.gov	11612 Scott Simpson	El Paso	TX	79936	915-849-4000
Federal	Ken	Born	Region VI Coord.	DHS - OEC	kenneth.born@dhs.gov	1701 Dalton Dr.	Flower Mound	TX	75022	202-641-5033

Federal	Louis	Sigalos	Dir. Southwest Reg. Operations & Emergency Mgt.	FCC	louis.sigalos@fcc.gov	9597 Jones Road #362	Houston	TX	77065	281-492-6288
Federal	Robert	Calderon	DHS, CBP	U.S. Customs and Border Protection	robert.calderon@dhs.gov	8901 Montana Ave	El Paso	TX	79925	915-834-8327
Federal	Camarillo	Hector		FBI	hectorcamarillo@ic.fbi.com	660 S. Mesa Hills Drive	El Paso	TX	79912	915-832-5000
Federal	Corey	Richardson	Senior Agent	FBI Midland	crichardson@t3wireless.com		Midland	TX	79703	432- 570-0255
Federal	Cheryl	Reed	Rural Dev. Specialist	USDA	cheryl.reed@tx.usda.gov		Abilene	TX	79606	325-690-6162
Federal	Brent	Sheets	U.S. Marshals	U. S. Marshals Service, Midland Division	Brent.sheets@usdoj.gov		Midland	TX		432-416-0032
New Mexico	Robert	Shilling	Chief	New Mexico State Police	rober.shilling@state.nm.us	PO Box 1628	Santa Fe	NM	87504-1628	505-827-9300
New Mexico	Dolores Salda	Caviness	Commissioner	Dona Ana County	dcaviness@donaanacounty.org	845 N. Motel Blvd	Las Cruces	NM	88007	575-635-5212
New Mexico	Garrison	Todd	Sheriff	Dona Ana County		845 N. Motel Blvd	Las Cruces	NM	88007	575-525-1911
New Mexico	John	Blansett	Sheriff	Otero County Sheri	jblansett@co.otero.nm.us	3208 N. White Sands	Alamogordo	NM	88310	575-437-2210
	Public and Vendor Contacts									
	Lewis	Bergman	Vendor	Texas Communications	lbergman@texascom.com	4309 Maple St	Abilene	TX	79602	325-695-6962
	Eddie	Bartee	Vendor	Albany Communications	beckylh@sbcglobal.net	408 S. Main St.	Albany	TX	76430	325-792-2721
	Kent	Leatherwood	Vendor	South Plains Communications	kleatherwood@sbcglobal.net	5811 W. 34th Street	Lubbock	TX	79407	806-795-5823
	Steve	Mild	COML		stevemild@gmail.com					
	Buz	Wojtek	Mgr.	All Texas Communications	bqojtek@texascom.com	902 Arroyo Dr.	San Angelo	TX	76903	325-659-1442
	Kyra	Pulliam	800MHz Transition Admini	Deloitte Consulting	comments@800TA.org					
	Jason	Bardnell	800MHz Transition Admini	Deloitte Consulting	comments@800TA.org					
	Harshal	Bhalerao	800MHz Transition Admini	Deloitte Consulting	comments@800TA.org					
	Chip	Crispino	800MHz Transition Admini	Deloitte Consulting	comments@800TA.org					

Region 50: 700 MHz Plan

Appendix C0

Region 50 Meeting Notices, Mailing Lists, Publications Verifications, Agendas, & Minutes

Chronological List of Region 50 El Paso (West Texas) 700MHz Regional Planning Committee and Subcommittee Meetings

1. May 2, 2012 - Initial/Convening meeting
2. June 20, 2012 – Regional Planning Committee meeting
3. July 11, 2012 – Regional Planning Committee meeting
4. August 29, 2012 – Regional Planning Committee meeting
5. September 27, 2012 – Regional Planning Committee meeting
6. October 17, 2012 – Regional Planning Committee meeting
7. December 5, 2012 – Regional Planning Committee meeting
8. January 29, 2013 – Regional Planning Committee meeting

Appendix C1: First Meeting Notifications and Agenda

Appendix C2: Notices of Additional Region 50 Planning Meetings

Appendix C3: Meeting Agendas

Appendix C4: Meeting Minutes

Appendix C5: Master Contact Mailing List

Region 50: 700 MHz Plan

Appendix C1 – First Meeting Notifications and Agenda

The following documentation provided notification of the Region 53 Initial 700MHz Planning Meeting, agenda and other information.

- Letter to FCC
- FCC Public Notice
- Letter Announcement to Master Contact List (U.S. Mail)
- Agenda
- Emailed Announcement to Master Contact List (600 emails)
- Email Request for newspaper public notice in each Council of Governments (COG) area (6)
- Email Request to post notification on public safety association and COG websites

February 15, 2012

Marlene H. Dortch, Secretary
Federal Communications Commission
Office of the Secretary
445 12th Street, SW,
Room TW-A325
Washington, DC 20554

Ms. Dortch:

Please accept this letter as notification that Region 50, West Texas-El Paso, is convening the initial RPC meeting at 1:30 on Wednesday, May 2, 2012 at 1:30 p.m., at the Rio Grande Council of Governments located at 1100 North Stanton, El Paso, Texas. A conference bridge is available for this meeting, with instructions in the announcement.

I, Frank Mendez, will be convener until the chairperson is elected. Carol Sutherland will be the Secretary until one is appointed.

Attached are the following documents:

- Region 50 1st RPC Meeting Announcement
- Region 50 1st RPC Meeting Invitation Letter
- Region 50 1st RPC Meeting Agenda (tentative)

Thank you in advance for posting the Public Notice.

Frank Mendez, Convener
Region 50 700 MHz RPC
City of El Paso
Telecommunications Manager
(915)771-1058
mendezf@elpasotexas.gov

cc: Jeannie.benfaida@fcc.gov
carolsutherland@txdps.state.tx.us

PUBLIC NOTICE

Federal Communications Commission
445 12th St., S.W.
Washington, D.C. 20554

News media information 202 / 418-0500
TTY 202 / 418-2555
Internet: http://www.fcc.gov

DA 12-317
February 29, 2012

PUBLIC SAFETY AND HOMELAND SECURITY BUREAU ANNOUNCES REGION 50 (TEXAS-EL PASO) 700 MHZ REGIONAL PLANNING COMMITTEE FIRST MEETING

The Region 50 (Texas-El Paso)[1] 700 MHz Public Safety Regional Planning Committee Convener announces that the initial meeting of the Region 50 700 MHz Public Safety Regional Planning Committee (RPC) will be held on Wednesday, May 2, 2012 at 1:30 p.m., at the Rio Grande Council of Governments, 1100 North Stanton, El Paso, Texas. The purpose of the meeting is to organize a working group to develop the Region 50 700 MHz band

The agenda for the 700 MHz meeting includes:

- Introductions
- Appoint temporary Secretary
- Call to Order, County roll call and teleconference self-introductions
- Discuss development and use of the 700 MHz Public Safety radio spectrum
- Funding allocations associated with planning endeavor
- FCC has pre-allocated spectrum geographically by county
- Nominations for Chair and Vice-Chair
- Elections
- Appointment of Secretary, Treasurer
- Identify standing committees and appointment of chairs:
  - Bylaws
  - Technical/Software/Interoperability
  - Peer Review/Dispute Resolution
- Set review and adoption of Bylaws
- Review of Plan requirements and preliminary timeline
- Development of draft Plan
- Region 50 document review via www.NIIX.org
- Opportunity for public comment
- Establish future meetings and locations
- Adjourn

[1] Region 50 (Texas-El Paso) 700 MHz regional planning area consists of the counties of Andrews, Borden, Brewster, Brown, Callahan, Coke, Coleman, Comanche, Concho, Crane, Crockett, Culberson, Dawson, Eastland, Ector, El Paso, Fisher, Gaines, Glasscock, Haskell, Howard, Hudspeth, Iron, Jeff Davis, Jones, Kent, Kimble, Know, Loving, Martin, Mason, McCulloch, Menard, Midland, Mitchell, Nolan, Pecos, Presidio, Reagan, Reeves, Runnels, Schleicher, Scurry, Shackelford, Stephens, Sterling, Stonewall, Sutton, Taylor, Terrell, Throckmorton, Tom Green, Upton, Ward, and Winkler.

WebEx Conference Bridge Information. If you are unable to attend the meeting, you may participate via the WebEx conference bridge by following these instructions:

Meeting Number: 626 365 953
Meeting Password: This meeting does not require a password.

1. To join this meeting, go to https://txdpsoncall.webex.com/txdpsoncall/j.php/J=626365953
2. If requested, enter your name and email address.
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Audio Conference Information
To receive a call back, provide your phone number when you join the meeting or call the number below and enter the access code.
Call-in toll free number (US/Canada): 1-877-668-4493
Call-in toll number (US/Canada): +1-408-600-3600
Access code: 626 365 953

The Region 50 700 MHz Public Safety RPC meeting is open to the public. All eligible public safety providers in Region 50 may utilize these frequencies. It is essential that eligible public safety agencies in all areas of government, including state, municipality, county, Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's rules, 47 C.F.R. § 90.523, be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate, and represent their agency's needs.

All interested parties wishing to participate in planning for the use of public safety spectrum in the 700 MHz band within Region 50 should plan to attend. For further information, please contact:

Frank Mendez
Convener, Region 50 700 MHz RPC
City of El Paso
Telecommunications Manager
(915) 771-1058
mendezf@elpasotexas.gov

-FCC-

Dear Public Safety Official,

The Federal Communications Commission (FCC) reallocated spectrum at 700 MHz for public safety use. As part of the regulatory process, the FCC established Regional Planning Committees (RPCs) to enable local determination of frequency allotments, user priorities, and interference criteria based on local terrain. The RPC is responsible for developing a plan that considers and, to the degree possible, meets the spectrum requirements of all eligible public safety entities within the region. (These RPCs are similar to, but separate and distinct from the committees that currently exist for the 821 MHz NPSPAC frequencies.)

Please join regional public safety representatives for the initial meeting of the Region 50 (Texas-El Paso-West Texas Area)[2] 700 MHz Public Safety Regional Planning Committee. This meeting will be on Wednesday, May 2, 2012 at 1:30 p.m., at the Rio Grande Council of Governments, 1100 North Stanton, El Paso, Texas.

As the Convener of this first meeting, I invite you and all other eligible entities to participate in the planning process. Meeting your agency's present and future spectrum needs can best be ensured by your participation.

A copy of the formal meeting announcement is enclosed. Please share this information with any neighboring agencies who might not have received this mailing, and feel free to contact me if you have any questions.

Sincerely,

Frank Mendez, Convener
Region 50 700 MHz RPC
City of El Paso
IT Telecommunications Manager
Phone: (915)771-1058
Email: mendezf@elpasotexas.gov

[2] Region 50 consists of Andrews, Borden, Brewster, Brown, Callahan, Coke, Coleman, Comanche, Concho, Crane, Crockett, Culberson, Dawson, Eastland, Ector, El Paso, Fisher, Gaines, Glasscock, Haskell, Howard, Hudspeth, Iron, Jeff Davis, Jones, Kent, Kimble, Know, Loving, Martin, Mason, McCulloch, Menard, Midland, Mitchell, Nolan, Pecos, Presidio, Reagan, Reeves, Runnels, Schleicher, Scurry, Shackelford, Stephens, Sterling, Stonewall, Sutton, Taylor, Terrell, Throckmorton, Tom Green, Upton, Ward, and Winkler Counties.

Region 50 – 700 MHz Regional Planning Committee
May 2, 2012 — 1st Meeting Agenda

Introductions
Appoint Temporary Secretary
Call to Order and County roll call and teleconference self-introductions
Purpose of Meeting: -Development of the use of 700 MHz Public Safety radio spectrum -No funding allocations are associated with this planning endeavor -FCC has allocated spectrum geographically by county
Nominations for Chair and Vice Chair
Elections
Appointment of Secretary, Treasurer
Identify Standing Committees and Appointment of Chairs (suggestions) -Bylaws -Technical/Software/Interoperability -Peer Review / Dispute Resolution
Set review and adoption of Bylaws
Review of Plan Requirements and Preliminary Timeline
Development of Draft Plan
Region 50 document review via www.NIIX.org
Opportunity for public comment
Establish Future Meetings and Locations
Adjourn

From: Carol Sutherland [mailto:carolsutherland@satx.rr.com]
Sent: Tuesday, April 03, 2012 6:34 AM
To: 'tsmith@wctcog.org'; 'tmann@wctcog.org'; 'jrodgers@wctcog.org'; 'bcso@web-access.net'; 'bcsoemc@gmail.com'; 'dalbright@ci.brownwood.tx.us'; 'mcorley@ci.brownwood.tx.us'; 'dglilley@verizon.net'; 'cdfurry2@mmm.com'; 'dalbright@ci.brownwood.tx.us'; 'damvfd@gmail.com'; 'eoff1@verizon.net'; 'randy@lakebrownwood.com'; 'boallen7@yahoo.com'; 'nlbfirechief@yahoo.com'; 'winchell_tx@msn.com'; 'chjondavid@yahoo.com'; 'citysecretary@bwoodtx.com'; 'earlypd@earlytx.net'; 'john.windham@callahancounty.org'; 'jan.windham@callahancounty.org'; 'rr711bird@windstream.net'; 'Billy.Dezern@abilenetx.com'; 'cottonwoodvfc@cottonwoodtexas.com'; 'crossplainsvfd@gmail.com'; 'crossplainsvfd@valornet.com'; 'eulavfd@lanranch.com'; 'judicrochet@yahoo.com'; 'shirley.smith@callahancounty.org'; 'marshallbeard@hotmail.com'; 'clydepd201@clydecityhall.com'; 'don@crossplains.org'; '3506@web-access.net'; 'firechief@colemanfire.com'; 'doug@coopersupply.com'; 'garylambert@web-access.net'; 'dchap4568@aol.com'; 'savfd@web-access.net'; 'southcolemanvfd@hotmail.com'; 'codyg@web-access.net'; 'dw318@hotmail.com'; 'dw318@hotmail.com'; 'sapd@web-access.net'; 'jefflambert_ccso@yahoo.com'; 'j-arthur@comanchecountyem.com'; 'em@cityofdeleon.org'; 'browell@cityofdeleon.org'; 'sgillette159@hotmail.com'; 'doylerone@yahoo.com'; 'rickwestcott@yahoo.com'; 'edmillwee@yahoo.com'; 'cjackson@ingramconcrete.com'; 'dpd@cctc.net'; 'wayne@eastlandcountytexas.com'; 'ecjudge@eastlandcountytexas.com'; 'epd@eastland.net'; 'cisco.pd@sbcglobal.net'; 'don@crossplains.org'; 'gormanpolicedept@yahoo.com'; 'risingstarpd@gmail.com'; 'forbus5@txol.net''jsutton@cvcog.org'; 'jim@cvcog.org'; 'nicole@cvcog.org'; 'bea@cvcog.org'; 'cokeso@co.coke.tx.us'; 'cokecounty911@hotmail.com'; 'roy.blair@co.coke.tx.us'; 'sheriff@co.concho.tx.us'; 'ccsorsutton@wcc.net'; 'jimmy.martin@co.irion.tx.us'; 'tom.aiken@co.iron.tx.us'; 'hilario.cantu@co.kimble.tx.us'; 'marvin.ivy@cityofjunction.com'; 'kcrfa@yahoo.com'; 'andrew.murr@co.kimble.tx.us'; 'mcsobuster600@verizon.net'; 'mccullochso@yahoo.com'; 'cderrick@cityofbrady.com'; 'ldaniel@bradyfdems.com'; 'judgeneal@hotmail.com'; 'menardcountyso@yahoo.com'; 'jw1254@yahoo.com'; 'jgarner@reagancounty.org'; 'drdoran@sccn2.net'; 'sc601@verizon.net'; 'suttonsheriff@verizon.net'; 'police@sonoratx.net'; 'truman.richey@co.tom-green.tx.us'; 'rita.guthrie@co.tom-green.tx.us'; 'sandra.elliott@co.tom-green.tx.us'; 'tim.vasquez@sanangelopolice.org'; 'briand@safiredept.com'; 'mike.brown@co.tom-green.tx.us' 'michaellancaster601@windstream.net'; 'bradhenry2005@sbcglobal.net'; 'scso@texasisp.com'; 'waylandvfd@yahoo.com'; 'stonewallcdsd@srcaccess.net'; 'stoco.judge@srcaccess.net'; 'brucel@taylorcountytexas.org'; 'jim.bryan@abilenetx.com'; 'abifire@abilenetx.com'; 'stan.standridge@abilenetx.com'; 'daryl.green@abilenetx.com'; 'SteveC@taylortel.net'; 'larwebb@gmail.com'; 'bgapfire@taylortel.net'; 'jyoung3045@aol.com'; 'hambyfd@taylortel.net'; 'mollye@taylortel.net'; 'lvff1700@yahoo.com'; 'SteveC@taylortel.net'; 'drussom2@taylortel.net'; '1401@potosifiredepartment.com'; 'rayk9702@aol.com'; 'tyefd@suddenlinkmail.com'; 'bishop906@hotmail.com'; 'policechief@cityoftye.org'; 'paguramarta@air-evac.com'; 'throckso@tgncable.com'; 'grf1959@gmail.com'; 'bates_1987@yahoo.com' 'todd.early@txdps.state.tx.us'; 'mike.barney@dps.texas.gov'; 'gabriella.mckittrick@dps.texas.gov'; 'joe.jarrett@dps.texas.gov'; 'carol.sutherland@dps.texas.gov'; 'lanny.hooper@dps.texas.gov'; 'nim.kidd@txdps.state.tx.us'; 'dabernathy@tfs.tamu.edu'; 'paul.gilbert@txdot.gov'; 'shawn.lange@tpwd.state.tx.us'; 'david.lakey@dshs.state.tx.us'; 'jason.ervin@LCRA.org'; 'larry.brown@lcra.org'; 'david.marquez@dps.state.tx.us'; 'ray.resendez@txdps.state.tx.us'; 'martin.widtfeldt@dps.texas.gov'; 'luise.morales@dshs.state.tx.us'; 'esequiel.trevino@dhs.gov'; 'kenneth.born@dhs.gov'; 'gregory.boren@dhs.gov'; 'louis.sigalos@fcc.gov'; 'robert.calderon@dhs.gov'; 'hectorcamarillo@ic.fbi.com'; 'joe.villegas@ic.fbi.gov'; 'GC-fort-bliss@mail.mil'; 'joseph.simonelli@us.army.mil'; 'bill@borderrac.org'; 'wirving@usbr.gov'; 'teamwhitesands@wsmr.army.mil'; 'crichardson@t3wireless.com'; 'U.S. Marshals Service'; 'txjrac.connie@att.net'; 'rober.shilling@state.nm.us'; 'dcaviness@donaanacounty.org'; 'vincentp@donaanacounty.org'; 'mayor@las-cruces.org'; 'jblansett@co.otero.nm.us'; 'mike@mikesimpsontx.com'; 'mike.simpson@accent-telecom.com'; 'lansales@lanranch.com'; 'lbergman@texascom.com'; 'beckylh@sbcglobal.net'; 'kleatherwood@sbcglobal.net'; 'harrym@mcscomtex.com'; 'gmunchrath@rcc.com' 'wallacedebra@are-evac.com'; 'marilyn.clark@dshs.state.tx.us'; 'jonetta_sweatt@chs.net'; 'hbhopper@windstream.net'; 'hopb37@yahoo.com'; 'natb79782@yahoo.com'; 'm1mcso@yahoo.com'; 'chief@soreheadpd.com'; 'dustywells@ymail.com'; 'scoleman@martinch.org'; 'sharris@martinch.org'; 'dale_little@co.midland.tx.us'; 'prepman@midlandtexas.gov'; 'joyce@mecd.org'; 'dflores@midlandtexas.gov';

'eluna@midlandtexas.gov'; 'bjohn@bjmcdaniel.net'; 'gary_painter@co.midland.tx.us';
'probinson@midlandtexas.gov'; 'risabell@midlandtexas.gov'; 'mat_mcclure@nevfd.org';
'cgarcia@midlandtexas.gov'; 'gary.valeriano@omniflight.com'; 'joshua.ureta@co.pecos.tx.us';
'rarodriguez@cityfs.net'; 'pcsheriff@co.pecos.tx.us'; 'fsfiredept@fortstocktonfire.net';
'frodrigueziii2005@yahoo.com'; 'tlcallahan@sbcglobal.net'; 'msherwood@pcmhfs.com'; 'kimcowboy@aol.com';
'reevesm@nwol.net'; 'arnulfo.gomez@co.reeves.tx.us'; 'claymac@classicnet.com'; 'fredcon@classicnet.net';
'ellaestrada@earthlink.net'; 'jtollett@cityofpecos.com'; 'flease@trhta.net'; 'santiago.flores@co.terrell.tx.us';
'tcso222@yahoo.com'; 'genenjeans@yahoo.com'; 'cpl_joe6133@yahoo.com'; 'sheriff@upton.cotx.com';
'cityofrankin@sbcglobal.net'; 'croberts@mchdtx.net'; 'rebecca.cruz@rankincountyhospital.org';
'runder36@sbcglobal.net'; 'frarin.valle@co.ward.tx.us'; 'mikel.strickland@co.ward.tx.us'; 'billy@dpscrane.com';
'jdstocks@sbcglobal.net'; 'mikern17@sbcglobal.net'; 'j.harbin@sbcglobal.net'; 'winkler-emc@att.net';
'wcso@co.winkler.tx.us'; 'lawdog901@gmail.com'; 'williamsstevenb@yahoo.com'; 'winkvfd@sbcglobal.net';
'winklercountyems@sbcglobal.net'; 'kcarter@wcmh.net'
'ciscofd@sbcglobal.net'; 'pdd@cctc.net'; 'efd@txol.net'; 'efgf7@yahoo.com'; 'oldenvfdstation@cebridge.net';
'dfox225@classicnet.net'; 'risingstarvfd@yahoo.com'; 'watson.sw15@yahoo.com'; 'fcsorobinson@yahoo.com';
'melodie.gonzales@co.fisher.tx.us'; 'r.kelly1975@yahoo.com'; 'ppthom@sbcglobal.net'; 'haskcoso@wtxs.net';
'randyshaw@valornet.com'; 'roylbell@earthlink.net'; 'jonescoso@sbcglobal.net'; 'ppthomson@yahoo.com';
'GLM702@SBCglobal.net'; 'crowson33@aol.com'; 'stamfordfire@stamfordfd.com'; 'chief.moore@ansontx.us';
'rmoseley@hamlinpd.net'; 'hawleypd@wtconnect.com'; 'huston629@sbcglobal.net';
'buddy.pope@co.jones.tx.us'; 'sheriff@kentcountysherifftx.com'; 'whitenite40@yahoo.com';
'tfloyd@srcaccess.net'; 'dickymcc@valornet.com'; 'jblake@srcaccess.net'; 'mingofireman@yahoo.com';
'citykc@arcaccess.net'; 'david.petrusaitis@leo.gov'; 'mitcoso@wtxs.net'; 'chief@cityofcoloradocity.org';
'lorainel@valornet.com'; 'westbrookvfd@yahoo.com'; 'dwarren@nolanso.com'; 'swpdcop@sbcglobal.net';
'grantmadden@sbcglobal.net'; 'rolanrrranch@taylortel.net'; 'garyarmstrong@sbcglobal.net'; 'sheriff@wcc.net';
'bfd.ballinger@verizon.net'; 'young311@verizon.net'; 'citywin@wtxs.net'; 'darren@scurrycountysheriff.com';
'pwestmoreland@ci.snyder.tx.us'; 'tluecke@ci.snyder.tx.us'; 'pwestmoreland@ci.snyder.tx.us';
'sheriff.miller@shackelfordcosheriff.com'; 'chiefkyle64@yahoo.com'
'tmoore@pbrpc.org'; 'bwelch@pbrpc.org'; 'bclark@pbrpc.org'; 'gail.robinette@pbrpc911.org';
'laura.torrex@pbrpc911.org'; 'abel.gamez@pbrpc911.org'; 'carly.collins@pbrpc911.org';
'txjrac.connie@att.net'; 'mcook@co.andrews.tx.us'; 'sjones@co.andrews.tx.us'; 'bjones@cityofandrews.org';
'jwharper@cityofandrews.org'; 'pdmedic_230@yahoo.com'; 'sclawson78@hotmail.com';
'borcenco_emc@yahoo.com'; 'billy.gannaway@co.borden.tx.us'; 'valentine@poka.com'; 'mmcgaa@att.net';
'sheriff@co.crane.tx.us'; 'aaguilar@co.crane.tx.us'; 'cranepd@sbcglobal.net'; 'cfd501@classicnet.net';
'dyeager@cranememorial.org'; 'fvera@ci.lamesa.tx.us'; 'lamesafd@ci.lamesa.tx.us';
'sheriff@lamesa.esc17.net'; 'matthogg@windstream.net'; 'lpdchief2000@yahoo.com';
'jamos@medicalartshospital.org'; 'slb122273@hotmail.com'; 'pattopj@co.ector.tx.us';
'davidgleaton@ectorcountysheriff.us'; 'stinney@odessa-tx.gov'; 'kevin@ector911.org';
'markdonaldson@ectorcountysheriff.net'; 'tburton@odessa-tx.gov'; 'ofd@odessa-tx.gov';
'bigdog54so@gmail.com'; 'jeaneanbragg@sbcglobal.net'; 'marshallm@echd.org'; 'pblanco@echd.org';
'slloyd@echd.org'; 'sberry@odessa.edu'; 'jhamilton@odessa-tx.gov'; 'pcastellano@iasishealthcare.com';
'meddics@aol.com'; 'jimellis@swbell.net'; 'mmcanal@dot.state.tx.us'; 'chad.hallum@co.gaines.tx.us';
'seagravesemc@dms911.com'; 'ckl@dms911.com'; 'seminole_so_2005@yahoo.com';
'mdbrowne@mywdo.com'; 'seagravespoliced@mywdo.com'; 'corum@esc17.net';
'tguffey@seminolehospitaldistrict.com'; 'emsdir@mywdo.com'; 'kim.halfmann@co.glasscock.tx.us';
'gcsheriff@crcom.net'; 'txjrac.jackie@att.net'; 'tchamness@bigspringpd.net'; 'LTelchik@bigspringpd.net';
'stan.parker@co.howard.tx.us'; 'lsmith@bigspringpd.net'; 'bjensen@mybigspring.com'; 'HCECD911@crcom.net'
Cc: 'Mendez, Francisco'; 'carol.sutherland@dps.texas.gov'
Subject: Region 50: 700MHz Planning Committee Meeting May 2, 2012

Dear Public Safety Official,

The Region 50 (Texas-El Paso) 700 MHz Public Safety Regional Planning Committee Convener announces that the initial meeting of the Region 50: 700 MHz Public Safety Regional Planning

Committee (RPC) will be held on Wednesday, May 2, 2012 at 1:30 p.m., at the Rio Grande Council of Governments, 1100 North Stanton, El Paso, Texas. The purpose of the meeting is to organize a working group to develop the Region 50 700 MHz band Channel Allocation Plan.

If you are unable to attend the meeting, you may participate via the WebEx conference bridge by following these instructions:

WebEx Conference Bridge Information
Meeting Number: 626 365 953
Meeting Password: This meeting does not require a password.
1. To join this meeting, go to https://txdpsoncall.webex.com/txdpsoncall/j.php/J=626365953
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For further information, please contact:

Frank Mendez
Convener, Region 50 700 MHz RPC
City of El Paso
Telecommunications Manager
(915) 771-1058
mendezf@elpasotexas.gov

(Note: Region 50 (Texas-El Paso) 700 MHz regional planning area consists of the counties of Andrews, Borden, Brewster, Brown, Callahan, Coke, Coleman, Comanche, Concho, Crane, Crockett, Culberson, Dawson, Eastland, Ector, El Paso, Fisher, Gaines, Glasscock, Haskell, Howard, Hudspeth, Iron, Jeff Davis, Jones, Kent, Kimble, Know, Loving, Martin, Mason, McCulloch, Menard, Midland, Mitchell, Nolan, Pecos, Presidio, Reagan, Reeves, Runnels, Schleicher, Scurry, Shackelford, Stephens, Sterling, Stonewall, Sutton, Taylor, Terrell, Throckmorton, Tom Green, Upton, Ward, and Winkler.)

Subject: Region 50 (Texas-El Paso) 700 MHz Regional Planning Committee Initial Meeting

The Region 50 (Texas-El Paso-West Texas Area)[3] 700 MHz Public Safety Regional Planning Committee (RPC) Convener announces that the initial meeting of the Region 50 700 MHz Public Safety RPC will be on Wednesday, May 2, 2012 at 1:30 p.m., at the Rio Grande Council of Governments, 1100 North Stanton, El Paso, Texas.

The Federal Communications Commission (FCC) established a structure to allow RPCs optimal flexibility to meet state and local needs, encourage innovative use of the spectrum, and accommodate new and unanticipated developments in technology and equipment. Each committee is required to submit its plan for the General Use spectrum. The purpose of this meeting is to organize the committee, select a Chairman and other officers, review the Plan requirements, and establish subcommittees to plan for the future use of radio frequencies in the 700 MHz band.

The Region 50 700 MHz Public Safety RPC meeting is open to the public. All eligible public safety providers in Region 50 may utilize these frequencies. It is essential that eligible public safety agencies in all areas of government, including state, municipality, county, and Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's rules, 47 C.F.R. § 90.523, be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate, and represent their agency's needs.

If you are unable to attend the meeting, you may participate via the WebEx conference bridge. To participate via WebEx please follow these instructions:

Meeting Number: 626 365 953
Meeting Password: This meeting does not require a password.
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1. Go to https://txdpsoncall.webex.com/txdpsoncall/j.php?J=626365953
2. If requested, enter your name and email address.
3. If a password is required, enter the meeting password: This meeting does not require a password.
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5. Follow the instructions that appear on your screen.

[3] Region 50 consists of Andrews, Borden, Brewster, Brown, Callahan, Coke, Coleman, Comanche, Concho, Crane, Crockett, Culberson, Dawson, Eastland, Ector, El Paso, Fisher, Gaines, Glasscock, Haskell, Howard, Hudspeth, Iron, Jeff Davis, Jones, Kent, Kimble, Know, Loving, Martin, Mason, McCulloch, Menard, Midland, Mitchell, Nolan, Pecos, Presidio, Reagan, Reeves, Runnels, Schleicher, Scurry, Shackelford, Stephens, Sterling, Stonewall, Sutton, Taylor, Terrell, Throckmorton, Tom Green, Upton, Ward, and Winkler Counties.

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Call-in toll number (US/Canada): +1-408-600-3600
Access code: 626 365 953

For further information, please contact:

Frank Mendez, Convener
Region 50 700 MHz RPC
City of El Paso
Telecommunications Manager
(915)771-1058
mendezf@elpasotexas.gov

From: Sutherland, Carol [mailto:Carol.Sutherland@dps.texas.gov]
Sent: Saturday, March 17, 2012 2:00 PM
To: michaela@riocog.org; tmann@wctcog.org; bwelch@pbrc.org; nicole@cvcog.org
Cc: mendezf@elpasotexas.gov; Barney, Mike; carolsutherland@satx.rr.com
Subject: Region 50 Newspaper Notice / FCC Public Notice Announcing Region 50 FCC Notification of Initial Meeting
Importance: High

All,

The FCC strongly recommends posting the FCC Public Notice of the First Region 50 Meeting (attached) in a major newspaper of each COG. This is to ensure all public safety agencies have been notified and reduce the number of regional notification and planning meetings. Since there is no funding for this, it is just a strong recommendation.

If possible, place the attached FCC PN in the newspapers between March 28th and April 4th, (3 to 4 weeks) prior to the May 2, 2012 meeting. Please scan and send me a copy of the newspaper item for the Plan.

Thank you.

take care,
Carol Sutherland
Strategic Communications Planner
phone 210.844.8969

From: Sutherland, Carol [mailto:Carol.Sutherland@dps.texas.gov]
Sent: Friday, March 30, 2012 7:52 AM
To: kkillion@txapco.org; info@texaspolicechiefs.org; Jurrens, Karla; paul.gilbert@txdot.gov; janet@txsheriffs.org; kcain@txregionalcouncil.org; bwilkes@texasfirechiefs.org; cbarron@sffma.org; csauter@txapco.org; rmayworm@bvcog.org; faye.prevot@h-gac.com; richard.morales@sanantonio.gov; michaela@riocog.org; tmann@wctcog.org; nicole@cvcog.org; bwelch@pbrpc.org
Cc: mendezf@elpasotexas.gov; Barney, Mike; carolsutherland@satx.rr.com
Subject: Action Requested: FCC Public Notice of Region 50, 700MHz Initial Meeting May 2, 2012, El Paso, TX
Importance: High

Please post the attached FCC Public Notice of the Texas Region 50 (El Paso / West Texas) May 2, 2012, 700 MHz Regional Planning Meeting on your website and/or calendar of events, and announce the El Paso meeting at your next scheduled meeting or call.

Thank you,

take care,

Carol Sutherland
Region 50 Secretary
Strategic Communications Planner
phone 210.844.8969

Region 50: 700 MHz Plan

Appendix C2 –Notices of Region 50 Planning Meetings

Appendix C2 contains copies of notices and invitations for monthly Region 50 meetings.

- FCC PN of June 20, July 17, 2012, and August 21, 2012 Region 50 RPC meetings.
- Email: Save-the-dates: Region 50 (Texas – El Paso) 700 MHz Web-meetings: June 20, 2012, July 17, 2012, August 21, 2012.
- Email: June 20, 2012 Region 50 (Texas-El Paso) 700 MHz RPC Web-Meeting
- Email: July 11, 2012 Region 50:700 MHz RPC Web-Meeting
- Email: 8/29/12 WebEx Meeting Notice & Instructions: Region 50: 700 MHz Planning Committee
- Email: NOTICE: Region 50:700 MHz Planning Committee will meet Sept. 27th @ CVCOG, San Angelo
- Email: NOTICE: Region 50: 700 MHz WebEx RPC meeting October 17, 2012
- Email: NOTICE: Region 50:700 MHz Planning Committee Meetings December 5, 2012 & January 8, 2013
- Email: NOTICE: Region 50: 700 MHz RPC Meetings January 29, 2013
-

PUBLIC NOTICE

Federal Communications Commission
445 12th St., S.W.
Washington, D.C. 20554

News media information (202) 418-0500
TTY (202) 418-2555
Internet: http://www.fcc.gov

DA 12-766

May 15, 2012

PUBLIC SAFETY AND HOMELAND SECURITY BUREAU ANNOUNCES REGION 50 (TEXAS-EL PASO) PUBLIC SAFETY REGIONAL PLANNING COMMITTEE TO HOLD 700 MHZ MEETINGS

The Region 50 (Texas-El Paso)[1] 700 MHz Public Safety Regional Planning Committee (RPC) will hold its next three meetings via WebEx beginning on June 20, 2012, July 17, 2012, and August 21, 2012. Each RPC meeting will convene online at 1:30 p.m. Central time.

The preliminary agenda for the meetings include:

- Welcome
- Texas Reports
- Call to order
- Roll call and introductions
- Approval of agenda
- Review and approve previous meeting minutes
- Discussion of Plan and Appendices
- Old Business
  - Register at www.NIIX.org for future Region 50 meeting notifications, WebEx meeting instructions, and document review and other Region 50 business
  - Plan submittal timeline – target date October 1, 2012
- New Business
  - CAPRAD demonstration
- Opportunity for comments
- Next meetings scheduled:
  - July 20, 2012 – WebEx
  - August 21, 2012 – WebEx
  - September 18, 2012 – San Angelo
- Adjourn

WebEx Conference Bridge Information for the June 20, 2012 700 MHz RPC meeting:

[1] Region 50 consists of Andrews, Borden, Brewster, Brown, Callahan, Coke, Coleman, Comanche, Concho, Crane, Crockett, Culberson, Dawson, Eastland, Ector, El Paso, Fisher, Gaines, Glasscock, Haskell, Howard, Hudspeth, Iron, Jeff Davis, Jones, Kent, Kimble, Know, Loving, Martin, Mason, McCulloch, Menard, Midland, Mitchell, Nolan, Pecos, Presidio, Reagan, Reeves, Runnels, Schleicher, Scurry, Shackelford, Stephens, Sterling, Stonewall, Sutton, Taylor, Terrell, Throckmorton, Tom Green, Upton, Ward, and Winkler Counties.

Date: Wednesday, June 20, 2012
Time: 1:30 pm, Central Daylight Time (Chicago, GMT-05:00)
Meeting Number: 627 546 005
Meeting Password: (This meeting does not require a password.)

- To participate in the online meeting, go to https://txdpsoncall.webex.com/txdpsoncall/j.php?ED=199269457&UID=1351290092&RT=MiM3
- If requested, enter your name and email address.
- If a password is required, enter the meeting password: (This meeting does not require a password.)
- Click "Join" and follow the instructions that appear on your screen.

Audio Conference Information:
To receive a call back, provide your phone number when you join the meeting, or call the number below and enter the access code. Call-in toll-free number (US/Canada): 1-877-668-4493
Call-in toll number (US/Canada): +1-408-600-3600, Access code: 627 546 005

WebEx instructions for all future Region 50 meetings will be sent approximately 30 days prior to the meeting date.

The Region 50 700 MHz Public Safety RPC meetings are open to the public. All eligible public safety providers in Region 50 may utilize these frequencies. It is essential that eligible public safety agencies in all areas of government, including state, municipality, county, and Native American Tribal be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate, and represent their agency's needs.

All interested parties wishing to participate in planning for the use of public safety spectrum in the 700 MHz band within Region 50 should plan to attend. Please send your participation confirmation via email to carol.sutherland@dps.texas.gov. For further information, please contact:

Frank Mendez, Chairperson
Region 50 700 MHz Public Safety RPC
Telecommunications Manager
City of El Paso
(915) 771-1058
mendezf@elpasotexas.gov

From: Carol Sutherland [mailto:carolsutherland@satx.rr.com]
Sent: Wednesday, May 09, 2012 5:03 PM
To: Region 50 Master Contact List
Cc: 'Mendez, Francisco'; 'tmann@wctcog.org'; 'carol.sutherland@dps.texas.gov'
Subject: Save-the-dates: Region 50 (Texas-El Paso) 700 MHz RPC Web-Meetings

SAVE-THE-DATES: June 20, July 17, and August 21.

The Region 50 (Texas-El Paso[2]) 700 MHz Public Safety Regional Planning Committee (RPC) will hold its next three meetings via WebEx, on:

June 20, 2012
July 17, 2012
August 21, 2012

Each meeting will start at 1:30 p.m. central time. A roll call of participants will be taken, however, to ensure we have an accurate record of attendees, please send an email confirming your participation to carol.sutherland@dps.texas.gov .

The preliminary agenda for these three 700 MHz RPC WebEx meetings include:

1) Welcome and thank you for your participation
2) Texas Reports …
3) Call to order and County roll call (self-introductions with name, agency and phone number)
4) Approval of agenda
5) Review and approve previous meeting minutes
6) Discussion of Plan and Appendices:
7) Old Business:
   a) Please register at www.NIIX.org for future Region 50 meeting notifications, WebEx meeting instructions, and document review and other Region 50 business.
   b) Plan submittal timeline:
      - Target date = October 1, 2012
8) New Business:
   a) CAPRAD demonstration
9) Opportunity for public comment
10) Next meetings scheduled:
    a) July 20, 2012 - WebEx
    b) August 21, 2012 - WebEx
    c) September 18, 2012 – San Angelo
11) Meeting adjourned.

WebEx Conference Bridge Information for the June 20, 2012 700 MHz RPC meeting:

Date: Wednesday, June 20, 2012
Time: 1:30 pm, Central Daylight Time (Chicago, GMT-05:00)
Meeting Number: 627 546 005
Meeting Password: (This meeting does not require a password.)
---
1. To join the online meeting, go to
https://txdpsoncall.webex.com/txdpsoncall/j.php?ED=199269457&UID=1351290092&RT=MiM3

[2] Region 50 consists of Andrews, Borden, Brewster, Brown, Callahan, Coke, Coleman, Comanche, Concho, Crane, Crockett, Culberson, Dawson, Eastland, Ector, El Paso, Fisher, Gaines, Glasscock, Haskell, Howard, Hudspeth, Iron, Jeff Davis, Jones, Kent, Kimble, Know, Loving, Martin, Mason, McCulloch, Menard, Midland, Mitchell, Nolan, Pecos, Presidio, Reagan, Reeves, Runnels, Schleicher, Scurry, Shackelford, Stephens, Sterling, Stonewall, Sutton, Taylor, Terrell, Throckmorton, Tom Green, Upton, Ward, and Winkler Counties.

2. If requested, enter your name and email address.
3. If a password is required, enter the meeting password: (This meeting does not require a password.)
4. Click "Join".
5. Follow the instructions that appear on your screen.

Audio Conference Information:
To receive a call back, provide your phone number when you join the meeting, or call the number below and enter the access code.
Call-in toll-free number (US/Canada): 1-877-668-4493
Access code: 627 546 005

WebEx instructions for all future Region 50 meetings will be sent approximately 30 days prior to the meeting date.

All Region 50: 700 MHz Public Safety RPC meetings are open to the public. All eligible public safety providers in Region 50 may utilize these frequencies. It is essential that eligible public safety agencies in all areas of government, including state, municipality, county, and Native American Tribal be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate, and represent their agency's needs.

For more information, please contact:
Frank Mendez; Convener, Region 50 700 MHz RPC
City of El Paso; Telecommunications Manager; (915) 771-1058; mendezf@elpasotexas.gov

From: Carol Sutherland [mailto:carolsutherland@satx.rr.com]
Sent: Tuesday, May 22, 2012 5:02 PM
To: Region 50 Master Contact List
Cc: 'Mendez, Francisco'; 'tmann@wctcog.org'; Carol.Sutherland@dps.texas.gov
Subject: June 20, 2012 Region 50 (Texas-El Paso) 700 MHz RPC Web-Meeting

WebEx Meeting Notice: June 20, 2012

The Region 50 (Texas-El Paso) 700 MHz Public Safety Regional Planning Committee (RPC) will hold its next meeting on June 20, 2012 via WebEx.

The meeting will start at 1:30 p.m. central time. A roll call of participants will be taken, however, to ensure we have an accurate record of attendees, please send an email confirming your participation to carol.sutherland@dps.texas.gov .

WebEx Conference Bridge Information for the June 20, 2012 meeting:

Date: Wednesday, June 20, 2012
Time: 1:30 pm, Central Daylight Time (Chicago, GMT-05:00)
Meeting Number: 627 546 005
Meeting Password: (This meeting does not require a password.)
1. To join the online meeting, go to
https://txdpsoncall.webex.com/txdpsoncall/j.php?ED=199269457&UID=1351290092&RT=MiM3
2. If requested, enter your name and email address.
3. If a password is required, enter the meeting password: (This meeting does not require a password.)
4. Click "Join".
5. Follow the instructions that appear on your screen.

Audio Conference Information:
Call-in toll-free number (US/Canada): 1-877-668-4493
Access code: 627 546 005

WebEx instructions for all future Region 50 meetings will be sent approximately 30 days prior to the meeting date. Additional information on this and future meetings, and planning documents are available on the NPSTC NIIX website at www.niix.org; under "*Your Communities*" go to "*Texas Region 50 700MHz Planning Committee.*"

Attached is the FCC Public Notice of the next three Region 50 RPC meetings, registration instructions for www.NIIX.org. and the May 2, 2012 Meeting Minutes.

FCC PN
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All Region 50: 700 MHz Public Safety RPC meetings are open to the public. All eligible public safety providers in Region 50 may utilize these frequencies. It is essential that eligible public safety agencies in all areas of government, including state, municipality, county, and Native American Tribal be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate, and represent their agency's needs.

For more information, please contact:
Frank Mendez; Convener, Region 50 700 MHz RPC
City of El Paso; Telecommunications Manager; (915) 771-1058; mendezf@elpasotexas.gov

From: Sutherland, Carol [mailto:Carol.Sutherland@dps.texas.gov]
Sent: Wednesday, June 27, 2012 2:52 PM
To: Region 50 Master Contact List
Cc: mendezf@elpasotexas.gov; tmann@wctcog.org; carolsutherland@satx.rr.com
Subject: FW: NEW Date: July 11, 2012 Region 50:700 MHz RPC Web-Meeting
Importance: High

Region 50:700 MHz WebEx Meeting Notice: July 11, 2012

The Region 50 (Texas-El Paso) 700 MHz Public Safety Regional Planning Committee (RPC) will hold its next meeting on July 11, 2012 via WebEx. The meeting will start at 1:30 p.m. central time. A roll call of participants will be taken, however, *please sign-on to the meeting with your complete name to ensure we have an accurate record of attendees*.

WebEx Conference Bridge Information for the July 11, 2012 meeting:

Topic: Region 50: 700MHz RPC Meetings
Date: Wednesday, July 11, 2012
Time: 1:30 pm, Central Daylight Time (Chicago, GMT-05:00)
Meeting Number: 622 449 942
Meeting Password: (This meeting does not require a password.)

To join the online meeting
---
1. Go to https://txdpsoncall.webex.com/txdpsoncall/j.php?ED=199269597&UID=1351290487&RT=MiM3
2. If requested, please enter your full name and email address.
3. If a password is required, enter the meeting password: (This meeting does not require a password.)
4. Click "Join".

To join the audio conference only

Call-in toll-free number (US/Canada): 1-877-668-4493
Access code:622 449 942

Additional information on this and future meetings, and planning documents are available on the NPSTC NIIX website at www.niix.org., under "*Your Communities*" go to "*Texas Region 50 700MHz Planning Committee.*"

Attached for your review is:

1. The July 11th proposed agenda.
2. The registration instructions for www.NIIX.org.
3. The June 20, 2012 Meeting Minutes.
4. Plan Appendix E: Pre-assignment Rules.
5. Plan Appendix G: Inter-Regional Coordination Procedures.
6. Plan Appendix K: Certification of Open Meetings.
7. Region 50 County Characteristics & Topography.

All Region 50: 700 MHz Public Safety RPC meetings are open to the public. All eligible public safety providers in Region 50 may utilize these frequencies. It is essential that eligible public safety agencies in all areas of government, including state, municipality, county, and Native American Tribal be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate, and represent their agency's needs.

For more information, please contact:
Frank Mendez, Chairman, Region 50: 700 MHz RPC
City of El Paso, Telecommunications Manager; (915) 771-1058, mendezf@elpasotexas.gov

From: Carol Sutherland [mailto:carolsutherland@satx.rr.com]
Sent: Thursday, August 23, 2012 2:25 PM
To: Region 50 Master Contact List
Cc: 'mendezf@elpasotexas.gov'; 'tmann@wctcog.org'; 'carol.sutherland@dps.texas.gov'
Subject: 8/29/12 WebEx Meeting Notice & Instructions: Region 50: 700 MHz Planning Committee
Importance: High

Region 50 invites you to attend this online meeting. The meeting agenda will be sent Monday, August 27th.

Topic: Region 50: 700 MHz Planning Committee
Date: Wednesday, August 29, 2012
Time: 3:30 pm, Central Daylight Time (Chicago, GMT-05:00)
Meeting Number: 924 907 834
Meeting Password: (This meeting does not require a password.)

To join the online meeting (Now from mobile devices!)
---
1. Go to https://txdps.webex.com/txdps/j.php?ED=202188187&UID=0&RT=MiM3
2. If requested, enter your name and email address.
3. If a password is required, enter the meeting password: (This meeting does not require a password.)
4. Click "Join".

To view in other time zones or languages, please click the link:
https://txdps.webex.com/txdps/j.php?ED=202188187&UID=0&ORT=MiM3

To join the audio conference only

To receive a call back, provide your phone number when you join the meeting, or call the number below and enter the access code.
Call-in toll-free number (US/Canada): 1-877-668-4493

Access code:924 907 834

For assistance
You can contact me at:
steven.campbell@dps.texas.gov
1-512-424-5303

From: Carol Sutherland [mailto:carolsutherland@satx.rr.com]
Sent: Sunday, August 26, 2012 5:37 PM
To: Region 50 Master Contact List
Cc: 'mendezf@elpasotexas.gov'; 'tmann@wctcog.org'; 'carol.sutherland@dps.texas.gov'
Subject: 8/29/12 Region 50: 700MHz Planning Committee WebEx meeting
Importance: High

Date: Wednesday, August 29, 2012; Time: 1:30 p.m.
This is a WebEx only meeting. WebEx instructions are below.

Dear Public Safety Official,

The Region 50 Regional Planning Committee (RPCs) is responsible for developing a plan that considers and, to the degree possible, meets the 700 MHz spectrum requirements of all eligible entities within the region.

Congress directed the Federal Communications Commission (FCC) to reallocate spectrum at 700 MHz for public safety use. As part of the regulatory process, the Commission established RPCs to enable local determination of frequency allotments, user priorities, and interference criteria based on local terrain.

The Region 50 RPC meeting is open to the public. All eligible public safety providers in Region 50 may utilize these frequencies. It is essential that public safety agencies in all areas of government, including state, municipality, county, Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's rules, 47 C.F.R. § 90.523, be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. *Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate, and represent their agency's needs.*

Attached with this email are:

- Agenda
- June 20 Meeting Minutes
- July 11 Meeting Minutes
- Appendix F: Channel Allotment Report
- Appendix H: Texas Interoperability Channel Plan
- Appendix J: Use of the 698-806 MHz Band Protocol with Mexico

Please take time to review the attached documents. We hope to approve each of these as part of our Region 50 Plan.
For further information, please contact:
Frank Mendez, Chairman, Region 50 700 MHz RPC
City of El Paso, Telecommunications Manager, (915) 771-1058; mendezf@elpasotexas.gov

WebEx Instructions:
Time: 3:30 pm, Central Daylight Time (Chicago, GMT-05:00)
Meeting Number: 924 907 834;
Meeting Password: (This meeting does not require a password.)

To join the online meeting (Now from mobile devices!)
---
1. Go to https://txdps.webex.com/txdps/j.php?ED=202188187&UID=0&RT=MiM3
2. If requested, enter your name and email address.
3. If a password is required, enter the meeting password: (This meeting does not require a password.)
4. Click "Join".

To join the audio conference only

Call-in toll-free number (US/Canada): 1-877-668-4493
Access code:924 907 834

For assistance
You can contact me at: steven.campbell@dps.texas.gov ; 1-512-424-5303

From: Carol Sutherland [mailto:carolsutherland@satx.rr.com]
Sent: Thursday, September 13, 2012 5:48 PM
To: Region 50 Master Contact List
Cc: 'mendezf@elpasotexas.gov'; 'tmann@wctcog.org'; 'Sutherland, Carol'
Subject: NOTICE: Region 50:700 MHz Planning Committee will meet Sept. 27th @ CVCOG, San Angelo
Importance: High

The Region 50 (Texas: El Paso & West Texas) 700 MHz Public Safety Regional Planning Committee (RPC) will hold a planning meeting:

Date: September 27, 2012; Time: 1:30 pm
Location: Concho Valley Council of Governments, 2801 W. Loop 306, Ste A, San Angelo, TX 76904
Phone: 325-944-9666; Instructions: please come in the entrance that faces the Loop (North side)

THIS MEETING WILL NOT HAVE WEBEX CAPABILITY. PLEASE PLAN TO ATTEND IF POSSIBLE.

The preliminary agenda for the meeting includes:

1. Welcome … Frank Mendez, Region 50 Chair
2. Call to Order and thank you for participating … Frank
3. COG roll call… Attendees, please provide Name, Agency, and County … Frank
4. Texas Reports … Frank
   - Operation Texas Talks (OTT) Action Plan
   - Narrowband Compliance by January 2013
   - 4.9 GHz Band (4.94 – 4.99 GHz) Issues
   - Texas PS LTE Update
5. Review, correct and approve August 29, 2012 Minutes … Frank
6. *Region 50 Plan Review and Approval to Send to Adjacent Regions for Consensus…Frank*
7. Old Business … Frank
8. New Business… Frank
   - The new Spectrum Sharing Agreement with Mexico replaces a previous agreement and paves the way for completion of 800MHz rebanding. These new guidelines must be incorporated into the existing Region 50: 800 MHz Plan.
     - Region 50: 700/800 MHz combined meeting when FCC timeline is established.
9. Opportunity for public comment … Frank
10. Establish future meetings and locations (meetings normally start at 1:30)… Frank
    - October 17th – WebEx meeting, (review status of adjacent regional agreements to Region 50 Plan)
    - November, December or January **XX** - WCTCOG, Abilene (review and approve completed Plan and Appendices to submit to the FCC)
11. Adjourn

Please go to NIIX.org prior to the meeting date to download the latest version of the Plan and Appendices to be reviewed at the meeting. For your convenience we are attaching the minutes from the previous meeting, NPSTC Narrowband information, and the revised Region 50: 700 MHz Plan.

The Region 50: 700 MHz RPC meeting is open to the public. All eligible public safety providers in Region 50 may utilize these frequencies. It is essential that public safety agencies in all areas of government, including state, municipality, county, and Native American Tribal be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate, and represent their agency's needs.

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For more information, please contact:
Frank Mendez, Chairman, Region 50: 700 MHz RPC
City of El Paso, Telecommunications Manager; (915) 771-1058, mendezf@elpasotexas.gov

From: Carol Sutherland [mailto:carolsutherland@satx.rr.com]
Sent: Thursday, October 04, 2012 3:14 PM
To: Region 50: 700 MHz Master Contact List
Cc: 'Mendez, Francisco'; 'tmann@wctcog.org'; 'Sutherland, Carol'
Subject: NOTICE: Region 50:700 MHz WebEx Planning Committee Oct. 17, 20
Importance: High

The Region 50 (Texas: El Paso & West Texas) 700 MHz Public Safety Regional Planning Committee (RPC) will hold a planning meeting:

Date: October 17, 2012
Time: 1:30 pm
Location: This will be a WebEx meeting only, see access instructions below.

WebEx on-line meeting instructions:
Topic: Region 50: 700 MHz Planning Committee
Date: Wednesday, October 17, 2012
Time: 1:30 pm, Central Daylight Time (Chicago, GMT-05:00)
Meeting Number: 924 678 312
Meeting Password: (This meeting does not require a password.)

To join the online meeting
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1. Go to https://txdps.webex.com/txdps/j.php?ED=206007432&UID=1447080782&RT=MiM3
2. If requested, enter your name and email address.
3. If a password is required, enter the meeting password: (This meeting does not require a password.)
4. Click "Join".

To join the audio conference only

Call-in toll-free number (US/Canada): 1-877-668-4493
Access code:924 678 312

For your convenience we are attaching the preliminary agenda for this meeting and the minutes from the previous meeting.

R50 101712 Agenda.doc

The Region 50: 700 MHz RPC meeting is open to the public. All eligible public safety providers in Region 50 may utilize these radio frequencies. It is essential that public safety agencies in all areas of government, including state, municipality, county, and Native American Tribal be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate, and represent their agency's needs.

For more information, please contact:
Frank Mendez, Chairman, Region 50: 700 MHz RPC
City of El Paso, Telecommunications Manager
(915) 771-1058, mendezf@elpasotexas.gov

From: Carol Sutherland [mailto:carolsutherland@satx.rr.com]
Sent: Monday, November 12, 2012 5:57 PM
To: Region 50: 700 MHz Master Contact List
Cc: 'Mendez, Francisco'; 'tmann@wctcog.org'; 'Sutherland, Carol'
Subject: NOTICE: Region 50:700 MHz Planning Committee Meetings December 5, 2012 & January 8, 2013
Importance: High

Region 50: 700 & 800 MHz Planning Committee Meeting Announcements
1:30 CST, December 5, 2012, WebEx Meeting
1:30 CST, January 9, 2013, Abilene Meeting - Hosted by West Central Texas COG

Dear Public Safety Official,
The Region 50: 700 & 800 MHz RPCs will hold meetings at 1:30 pm on:

- December 5, 2012. (WebEx meeting); see access instructions below.
- January 9, 2013 Abilene meeting, hosted at the West Central Texas COG, 3702 Loop 322 Abilene, Texas 79602-7300, (325) 672-8544.

Here is the preliminary agenda for the meetings:

700 / 800 MHz Public Safety Planning Committee Meetings

1) Welcome
2) Call to order and County roll call
3) Texas Reports
   a) Update on Texas Public Safety Broadband
   b) Update on Operation Texas Talks Action Plan
   c) FCC Narrowband Enforcement Advisory
4) Old Business: Status report on Region 50 Plan approvals from adjacent regions
5) New Business: A FCC representative will be reviewing the new radio spectrum agreement with Mexico. (It is important that public safety agencies within approximately 70 miles of the Mexico Border attend to learn how this agreement will impact their communications systems.
   i) The new Spectrum Sharing Agreement with Mexico replaces a previous agreement and paves the way for completion of 800 MHz rebanding.)
   ii) Tasks and timeline discussion.
6) Meeting adjourned

These committees are responsible for developing radio communications plans that considers and, to the degree possible, meets the spectrum requirements of all public safety entities within the region. It is essential that public safety agencies in all areas of government be represented in order to ensure that each agency's needs are considered in the allocation process. *Please share this information with any neighboring agencies who might not have received this mailing, and feel free to contact me if you have any questions.*

Respectfully,
Frank Mendez, Chairman, Region 50: 700 MHz RPC
City of El Paso, Telecommunications Manager; (915) 771-1058, mendezf@elpasotexas.gov

WebEx on-line meeting instructions:
Topic: Region 50 Regional Planning Committee
Date: Wednesday, December 5, 2012
Time: 1:30 pm, Central Standard Time (Chicago, GMT-06:00)
Meeting Number: 929 334 280
Meeting Password: (This meeting does not require a password.)

To join the online meeting
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1. Go to https://txdps.webex.com/txdps/j.php?ED=208260887&UID=0&RT=MiM3
2. If requested, enter your name and email address.
3. If a password is required, enter the meeting password: (This meeting does not require a password.)
4. Click "Join".
To view in other time zones or languages, please click the link:
https://txdps.webex.com/txdps/j.php?ED=208260887&UID=0&ORT=MiM3
To join the audio conference only
Call-in toll-free number (US/Canada): 1-877-668-4493 ; Access code:929 334 280

From: Carol Sutherland [mailto:carolsutherland@satx.rr.com]
Sent: Sunday, January 06, 2013 5:36 PM
To: Region 50: 700 MHz Master Contact List
Cc: 'Mendez, Francisco'; 'Tom Mann'; 'Sutherland, Carol'
Subject: RE: Meeting Notice: Region 50: RPC Meetings January 29, 2013

This may be a duplicate Meeting Notice due to most original notices being undeliverable because of the final Region 50 Plan (10 MB) being attached for your review. If you did not receive the Plan, please download it from NIIX. [To access Region 50 planning materials go to: www.NIIX.org, (after registering) go to Your Communities (screen left) and scroll down to the Texas Region 50: 700 MHz Planning Committee community, then click 700 MHz Plan documents.]

Region 50: 700 & 800 MHz Planning Committee Meeting Announcement
1:30 CST, January 29, 2013, Abilene, TX - Hosted by West Central Texas COG
(to join via WebEx see instructions below)

The Region 50 January 9, 2013 meeting was postponed to January 29, 2013 meeting.

Dear Public Safety Official,

The Region 50: 700 & 800 MHz RPCs will hold a meeting at:

- 1:30 pm, Tuesday, January 29, 2013,
- at the West Central Texas COG, 3702 Loop 322, Abilene, Texas 79602-7300, (325) 672-8544.

Here is the preliminary agenda for the meetings:

700 MHz Public Safety Planning Committee Meeting

12) Welcome.
13) Call to Order and County roll call.
14) Texas Reports:
    i) Update on Texas Public Safety Broadband.
    ii) Update on Operation Texas Talks Action Plan.
    iii) FCC Narrowband Enforcement Advisory.
15) Old Business:
    a) Approval of previous meeting minutes.
    b) Status report on Region 50 Plan approvals from adjacent regions.
16) New Business:
    i) Final Plan approval and submission to FCC for approval.
    ii) Next meeting date:
17) Meeting adjourned

800 MHz Public Safety Planning Committee Meetings

1. Call to Order.
2. Old Business:
    i) Mexico Spectrum Sharing Zone.
    ii) 800 MHz Rebanding Transition Administrators.
3. New Business
4. Public Comment
5. Meeting adjourned

These committees are responsible for developing radio communications plans that considers and, to the degree possible, meets the spectrum requirements of all public safety entities within the region. It is essential that public safety agencies in all areas of government be represented in order to ensure that each agency's needs are considered in the allocation process. *Please share this information with any neighboring agencies who might not have received this mailing, and feel free to contact me if you have any questions.*

Respectfully,
Frank Mendez, Chairman, Region 50: 700 MHz RPC
City of El Paso, Telecommunications Manager
(915) 771-1058, mendezf@elpasotexas.gov

WebEx on-line meeting instructions:
Region 50 RPC invites you to attend this online meeting.

Topic: Region 50 700 MHz Regional Planning Committee meeting
Date: Tuesday, January 29, 2013
Time: 1:30 pm, Central Standard Time (Chicago, GMT-06:00)
Meeting Number: 929 296 555
Meeting Password: (This meeting does not require a password.)

To join the online meeting (Now from mobile devices!)
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1. Go to https://txdps.webex.com/txdps/j.php?ED=213558007&UID=0&RT=MiM3
2. If requested, enter your name and email address.
3. If a password is required, enter the meeting password: (This meeting does not require a password.)
4. Click "Join".

To join the audio conference only

To receive a call back, provide your phone number when you join the meeting, or call the number below and enter the access code.
Call-in toll-free number (US/Canada): 1-877-668-4493
Access code:929 296 555

Region 50: 700 MHz Plan

Appendix C3 – Meeting Agendas

Appendix C3 provides copies Region 50 Planning meeting agendas to date:

- May 2, 2012 – 1st Meeting Agenda
- June 20, 2012 – Meeting Agenda
- July 11, 2012 – Meeting Agenda
- August 29, 2012 – Meeting Agenda
- September 27, 2012 - Meeting Agenda
- October 17, 2012 – Meeting Agenda
- December 5, 2012 – Meeting Agenda
- January 29, 2013 – Meeting Agenda

Region 50 – 700 MHz Regional Planning Committee
May 2, 2012 — 1st Meeting Agenda

- Introductions
- Appoint temporary Secretary
- Call to Order, County roll call and teleconference self-introductions
- Discuss development and use of the 700 MHz Public Safety radio spectrum
- Funding allocations associated with planning endeavor
- FCC has pre-allocated spectrum geographically by county
- Nominations for Chair and Vice-Chair
- Elections
- Appointment of Secretary, Treasurer
- Identify standing committees and appointment of chairs:
    - Bylaws
    - Technical/Software/Interoperability
    - Peer Review/Dispute Resolution
- Set review and adoption of Bylaws
- Review of Plan requirements and preliminary timeline
- Development of draft Plan
- Region 50 document review via www.NIIX.org
- Opportunity for public comment
- Establish future meetings and locations
- Adjourn

Region 50: West Texas, El Paso
700 MHz Regional WebEx Planning Committee
June 20, 2012 — Agenda

- Welcome … Frank Mendez, Region 50 Chair
- Call to Order and thank you for participating … Frank
- COG roll call; Attendees, please provide Name, Agency, and County … Frank
- Texas Reports … Frank
    - Annual SCIP Conference, August 15, 2012 from 9:00AM – 4:00PM at the TxDOT Austin District Campus, Building 7.
    - Operation Texas Talks … Please educate your elected officials on the need to fund Mission Critical Communications
    - Narrowband Compliance … January 2013
- Review, correct and approve May 2, 2012, 1st Meeting Minutes … Frank
- Region 50 Plan Document Review
    - Bylaws …Michael Ada, RGCOG, Bylaws Chair
    - Review and adoption of Bylaws
    - Appendix H: Application Process diagram … Frank
    - Review and adoption of Application Process
    - Appendix N: Application Checklist … Frank
    - Review and adoption of Application Checklist
- View County Channel Allotments
    - Introduction to www.CAPRAD.org … Carol
- Communications and Document Review via www.NIIX.org … Carol
    - Bylaws
    - Appendix H
    - Appendix N
- Opportunity for public comment … Frank
- Establish future meetings and locations … Frank
    - July 17, 2012 (this is in conflict with the SWBCWG meeting, recommend changing the date to July 18th);
    - August 21, 2012
    - September 18, 2012 – San Angelo
- Adjourn

Region 50: West Texas, El Paso
700 MHz Regional WebEx Planning Committee
July 11, 2012 – Agenda

- Welcome … Frank Mendez, Region 50 Chair
- Call to Order and thank you for participating … Frank
- COG roll call; Attendees, please provide Name, Agency, and County … Frank
- Texas Reports … Frank
    - Annual SCIP Conference, August 15, 2012 from 9:00AM – 4:00PM at the TxDOT Austin District Campus, Building 7.
    - Operation Texas Talks … Please educate your elected officials on the need to fund Mission Critical Communications
    - Narrowband Compliance … January 2013
- Review, correct and approve June 20, 2012, Meeting Minutes … Frank
- Region 50 Plan Document Presentations and Review
    - County Characteristics & Topography (2 sheets)
    - Appendix E: Pre-assignment Rules
    - Review and adoption of Appendix E
    - Appendix G: Inter-Regional Coordination Procedures and Procedures for Resolution of Disputes That May Arise Under FCC Approved Plans … Frank
    - Review and adoption of Appendix G
    - Appendix K: Certification of Open Meetings
    - Review and adoption of Appendix K
- Old Business … Frank
    - Review of Plan documents on NIIX; access instructions emailed with meeting notice.
- New Business… Frank
    - Homework: review County Characteristics & Topography and send corrections to Carol.sutherland@dps.texas.gov
- Opportunity for public comment … Frank
- Establish future meetings and locations … Frank
    - August 21, 2012 – this is a WebEx meeting; instructions will be emailed with meeting notice.
    - September 18, 2012 – San Angelo
- Adjourn

Region 50: West Texas, El Paso
700 MHz Regional Planning Committee
August 29, 2012 WebEx Meeting Agenda

- Welcome … Frank Mendez, Region 50 Chair
- Call to Order and thank you for participating … Frank
- COG roll call; Attendees, please provide Name, Agency, and County … Frank
- Texas Reports … Frank
    - Operation Texas Talks (OTT)… Good News! Texas Municipal League (TML) Legislative and Policy Committee voted to support legislation to fund OTT; the recommendation will now go to the Executive Board for approval.
    - Narrowband Compliance … January 201**3**
    - FCC ANNOUNCES TWO SPECTRUM-SHARING AGREEMENTS WITH MEXICO ENABLING ADVANCED PUBLIC SAFETY AND COMMERCIAL COMMUNICATIONS IN THE MEXICO BORDER AREA.
- Review, correct and approve June 20 Minutes, and July 11 Minutes … Frank
- Region 50 Plan Document Review…Frank
    - Appendix F: Channel Allotment Reports
    - Review and adoption of Appendix F
    - Appendix H: Texas Interoperability Guide (Note: Application Process Diagram was Appendix H, now is Appendix D)
    - Review and adoption of Appendix H
    - Appendix J: Use of the 698-806 MHz Band Protocol with Mexico Border (Protocol Between the Department of State of the United States of America and the Secretariat of Communications and Transportation of the United Mexican States Concerning the Allotment and Use of the 698-806 MHz Band for Terrestrial Non-Broadcasting Radio communication Services Along the Common Border)
    - Review and adoption of Appendix J
- Old Business … Frank
- New Business… Frank
    - The new Spectrum Sharing Agreement with Mexico replaces a previous agreement and paves the way for completion of 800MHz rebanding. These new guidelines must be incorporated into the existing Region 50: 800 MHz Plan.
        - Region 50: 700/800 MHz combined meeting in November.
- Opportunity for public comment … Frank
- Establish future meetings and locations (all meetings start at 1:30)… Frank
    - September 27, 2012 – the *meeting will be in San Angelo at the Concho Valley COG facility.*
    - October **XX** – WebEx meeting
    - November **XX** - combined 700/800 MHz meeting
- Adjourn

Region 50: West Texas, El Paso
700 MHz Regional Planning Committee
September 27, 2012 Meeting Agenda
CVCOG, San Angelo, TX

- Welcome … Frank Mendez, Region 50 Chair
- Call to Order and thank you for participating … Frank
- COG roll call; Attendees, please provide Name, Agency, and County … Frank
- Texas Reports … Frank
    - Operation Texas Talks (OTT) Action Plan
    - Narrowband Compliance by January 2013…NPSTC Announcement: Colleges, Universities, and K-12 Schools …*FCC's Narrowbanding Mandate Affects You— please share the Narrowband information sent with your meeting notice with schools and universities in your area.*
    - 4.9 GHz Band (4.94 – 4.99 GHz) Issues: Coordination and regional planning — are agencies in Region 50 using 4.9 GHz? If so, please go to www.npstc.org to learn more about 4.9 GHz issues.
    - Texas PS LTE Update
- Review, correct and approve August 29, 2012 Minutes … Frank
- *Region 50 Plan Review and Approval to Send to Adjacent Regions for Consensus…Frank*
- Old Business … Frank
- New Business… Frank
    - The new Spectrum Sharing Agreement with Mexico replaces a previous agreement and paves the way for completion of 800MHz rebanding. These new guidelines must be incorporated into the existing Region 50: 800 MHz Plan.
        - Region 50: 700/800 MHz combined meeting when FCC timeline is established.
- Opportunity for public comment … Frank
- Establish future meetings and locations (meetings normally start at 1:30)… Frank
    - October 17th – WebEx meeting, (review status of adjacent regional agreements to Region 50 Plan)
    - November, December or January **XX** - WCTCOG, Abilene (review and approve completed Plan and Appendices to submit to the FCC)
- Adjourn

Region 50: West Texas, El Paso
700 MHz Regional Planning Committee
October 17, 2012 WebEx Meeting Agenda

- Welcome:
- Call to Order and thank you for participating
- COG roll call; Attendees, please provide Name, Agency, and County
- Texas Reports
    - Operation Texas Talks (OTT) Action Plan
- Review, correct and approve September 27, 2012 Meeting Minutes
- Region 50 Plan:
    - Status of approval from adjacent regions
    - Questions or discussion of the Region 50 Plan. The approved Plan and all Appendices are on NIXX, available for you to download and review.
- Old Business: To download the complete Plan go to: www.niix.org; access the Region 50: 700 MHz Planning Committee Community (left side of your screen); click on Plan Documents and download.
- New Business:
    - The new Spectrum Sharing Agreement with Mexico replaces a previous agreement and paves the way for completion of 800MHz rebanding. These new guidelines must be incorporated into the existing Region 50: 800 MHz Plan.
        - Region 50: 700/800 MHz combined meeting when FCC timeline is established.
- Opportunity for public comment
- Establish future meetings and locations (meetings normally start at 1:30)
    - December 12, 2012, Wednesday, WebEx meeting
    - January 9, 2013, Wednesday, WCTCOG, Abilene (if approval is received from all adjacent regions, review and approve completed Plan and Appendices to submit to the FCC)
- Adjourn.

Region 50: 700 MHz Planning Committee
WebEx Meeting - December 5, 2012 Agenda

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700 MHz Public Safety Planning Committee Meeting

1) **C**all to order of 700 MHz RPC meeting
2) Texas Reports
    i) Update on Texas Public Safety Broadband
    ii) Update on Operation Texas Talks Action Plan
3) Old Business:
    i) FCC Narrowband Reminder
    ii) Status of 700 MHz Plan
        (1) Sent to adjacent Regions
    iii) NCTCOG request for modified "Inter-Regional Coordination Procedures and Procedures for Resolution of Disputes that may arise under FCC Approval Plans) Agreement
4) New Business:
5) Opportunity for public comment
6) Next meeting scheduled:
    a) January 9, 2013 Abilene meeting, hosted at the West Central Texas COG, 3702 Loop 322, Abilene, Texas 79602-7300, (325) 672-8544.
7) Meeting adjourned

Region 50: 700 MHz Planning Committee Meeting
Agenda for January 29, 2013,
West Central Texas COG, 3702 Loop 322, Abilene, Texas

(WebEx capability)

700z Public Safety Planning Committee Meeting

1) Welcome.
2) Call to Order and County roll call.
3) Texas Reports:
    a. DHS/OEC sponsored SCIP Workshop, April 9-10, 2013, Austin, TX
    b. Update on Texas Public Safety Broadband…We need your help! To get involved go to: http://survey.constantcontact.com/survey/a07e6phk39iha2zmiw8/start
    c. Update on TxICC Governance Structure…COG delegates should be elected by March 30, 2013.
    d. Update on Operation Texas Talks Action Plan…Educate your State Legislators on the needs of Mission Critical Emergency Communications.
    e. FCC Narrowband Enforcement Advisory.
4) Old Business:
    a. Approval of previous meeting minutes.
    b. Status report on Region 50 Plan approvals from adjacent regions.
5) New Business:
    a. Final Plan approval for submission to FCC.
    b. Send Region 50 Plan to FCC and post on www.CAPRAD.org
    c. Transition from NIIX.org to CAPRAD.org
6) Opportunity for public comment
7) Next meeting date: Annual Meeting: Tuesday, March 19, 2013 (tentative)
8) Meeting adjourned

Region 50: 700MHz Plan

Appendix C4 – Meeting Minutes

Appendix C4 provides copies Region 50 Planning meeting minutes:

- Region 50: 700MHz RPC 1st Meeting Minutes – May 2, 2012
- Region 50: 700 MHz RPC June 20, 2012 Meeting Minutes
- Region 50: 700 MHz RPC July 11, 2012 Meeting Minutes
- Region 50: 700 MHz RPC August 29, 2012 Meeting Minutes
- Region 50: 700 MHz RPC September 27, 2012 Meeting Minutes
- Region 50: 700 MHz RPC October 17, 2012 Meeting Minutes
- Region 50: 700 MHz RPC December 5, 2012 Meeting Minutes
- Region 50: 700 MHz RPC January 29, 2013 Meeting Minutes
-

- Welcome…*Michael Ada (MA), RGCOG, welcomed all to the El Paso area and introduced Frank Mendez (FM), the 800 MHz Chairman and convener of this 700MHz RPC meeting.*
- Introductions…*FM thanked everyone for coming to the initial meeting of the 700MHz RPC. All participants introduced themselves and gave their agency and location.*
- Texas Reports on…*Todd Early (TE), DPS Deputy Assistant Director, Texas SWIC, explained the importance of these planning efforts to the future of public safety mission critical voice communication and thanked all for their participation.*
    - Operation Texas Talks…*TE educated the group on the enactment of House Bill 442 and the importance of active support to have the funding appropriated for statewide emergency communications needs.*
    - Public Safety LTE Broadband …*Mike Barney, DPS Technical Services Coordinator, provided an overview of the national public safety broadband LTE program, its advantages for public safety, and the plan for Texas build-out. TE explained LTE BB would not take the place of mission critical voice LMR systems; however we need to support this endeavor for the future of public safety advancement.*
    - Narrowband Compliance…*Joe Jarrett, DPS & Texas APCO Frequency Coordinator, provided an overview of the FCC narrowband ruling, discussed the possibility of a waiver, and demonstrated how to access the narrowband website to view the status of county FCC licenses. Each participant was provided a programming instruction guide for agencies with limited radio channel capability.*
- Why We're Here … *FM provided a detailed overview of the 700MHz narrowband channels and how they can be used by Region 50 public safety agencies, and limitations of 700MHz. FM also provided a national, Texas, and Regional overview of RPC Plans, and advised the group on the Mexican Border Agreement. TD advised of a recent meeting which may move the agreement forward quickly.*

1. Appoint temporary Secretary…*FM appointed Carol Sutherland (CS) as temporary secretary.*
2. Call to Order, County roll call and teleconference self-introductions…*FM called the role by COGs; a total of 32 attendees including WebEx participants.*
3. Review and approve agenda…*MA moved to approve the agenda as is; Greg Taylor, Abilene FD, 2nd the motion.*
4. Nominations and Elections for Chair and Vice-Chair…*TE opened nominations for Region 50 Chairperson; MA nominated Frank Mendez; Mike McConnell, Horizon PD 2nd motion. FM was elected by acclamation. Michael Ada (MA) nominated Tom Mann, WCTCOG Homeland Security Director for Vice-Chair; FM seconded; Tom was elected by acclamation.*
5. Appointment of Secretary, Treasurer…*FM appointed CS, all agreed.*
6. Identify standing committees and appointment of chairs:…*FM discussed the five committees and responsibilities, and made the following appointments; all agreed:*
    a. Bylaws…*Michael Ada, RGCOG.*
    b. Technical/Software/Interoperability…*Jorge Perez, Clint PD.*
    c. Peer Review/Dispute Resolution…*Barney Welch, PBRPC COG.*
7. Define Plan requirements…*FM advised that the Plan will follow all FCC recommendations, and requested CS to review the FCC Plan requirements. CS explained that templates are available for*

us to customize for the Region 50 Plan.

a. Critical Plan Components…*CS provided an overview of the Plan and Plan sections and a target date for completion, October 1, 2012.*

b. Draft Bylaws…*CS reviewed the items to check closely in the Bylaws template; CS to send the template to MA.*

c. Schedule review and adoption of Bylaws… *CS proposed that MA be ready to present the Region 50 Bylaws to the RPC for discussion and approval at the next meeting.*

8. Identify Channel Allotments

a. Introduction to www.CAPRAD.org…*CS opened the CAPRAD.org website and demonstrated the process to identify county allotted channels. All were encouraged to register for CAPRAD.*

9. Communications and Document Review via www.NIIX.org … *CS opened the NIIX.org website and demonstrated how to access the Region 50 Community and files for review and discussion. All were encouraged to register for NIIX.*

10. Opportunity for public comment…*None*

11. Establish future meetings and locations…*FM announced changes to the meeting schedule. And due to travel expenses, Regions can conduct total WebEx meetings. All live meetings and WebEx meetings will start at 1:30 Central Time.*

a. *June ~~19~~ 20, 2012…WebEx meeting*

b. *July ~~14~~ 17, 2012…WebEx meeting*

c. *August 21, 2012…WebEx meeting*

d. *September 18, 2012 – Live meeting in San Angelo; CS will discuss location with Nicole Gonzalez, CVCOG*

12. Adjourn…*FM adjourned the meeting.*

- Welcome … *Frank Mendez, Region 50 Chair welcomed all to the WebEx on-line meeting, and thanked DPS for hosting the WebEx meetings.*
- Call to Order … *Frank thanked all for their participation.*
- COG roll call: *Frank asked that all attendees introduce themselves; participants included CVCOG-2, PBRPC-4, RGCOG-3, Ysleta Del Sur Pueblo Indian Nation-1, WCTCOG-2, State Agencies-3, Federal agencies-2, Public-1, total – 18.*
- Texas Reports … *Frank*
    - Annual SCIP Conference…*Frank encouraged all to attend the annual Texas conference on communications interoperability.*
    - Operation Texas Talks … *Frank requested all to please educate elected officials on the need to fund Mission Critical Communications; the handout brochure is on NIIX and emailed to all.*
    - Narrowband Compliance … *Frank explained the requirements to narrowband by January 2013, and the possible consequences of not.*
- Approve May 2, 2012, First meeting minutes*… minutes were sent with this meeting notice; Frank asked for a motion to approve minutes; minutes were approved.*
- Region 50 Plan Document Review
    - Bylaws *…Michael Ada, RGCOG, Bylaws Chair reviewed and led a discussion on the proposed Region 50 Bylaws.*
        - *Bylaws were amended per discussion and adopted.*
    - Appendix H: Application Process diagram … *Frank reviewed and led a discussion on the Application Process*
        - *Application Process was adopted as is.*
    - Appendix N: Application Checklist … *Frank reviewed and led a discussion on the Application Checklist.*
        - *Application Checklist was adopted as is.*
- View County Channel Allotments… *Carol Sutherland, Region 50 Secretary, demonstrated how to register and locate County Channel Allotments on CAPRAD.*
- Communications and Document Review via www.NIIX.org … *Carol demonstrated how to register on NIIX and access Plan documents.*
- Opportunity for public comment … *none*
- Establish future meetings and locations … *Frank reminded all to meet again via WebEx for the July and August meetings, and the September meeting will be in San Angelo on the 27th at the Concho Valley COG facility. All meetings start at 1:30 pm.*
    - *August 21, 2012 – this is a WebEx meeting; instructions will be emailed with meeting notice.*
    - *September 27, 2012 – San Angelo*
- Adjourn… *Frank adjourned the meeting at 3:25 pm.*

- Welcome … *Frank Mendez, Region 50 Chair welcomed all to the on-line meeting.*
- Call to Order … *Frank thanked all for their participation in this important task.*
- COG roll call: *Frank asked that all attendees introduce themselves; participants included CVCOG-1, RGCOG-3, WCTCOG-3, State Agencies-3, Federal agencies-1, Public-1.*
- Texas Reports … *Frank*
    - Annual SCIP Conference…*Frank encouraged all to attend this annual conference on communications interoperability.*
    - Operation Texas Talks … *Frank requested all to please educate elected officials on the need to fund Mission Critical Communications; the handout brochure is on NIIX and emailed to all.*
    - Narrowband Compliance … *Frank explained the requirements to narrowband by January 2013, and the possible consequences of not.*
- Approve previous meeting minutes… *Frank advised that we would have these minutes ready for review and approval at the next meeting.*
- Region 50 Plan Document Presentations and Review…*Frank reviewed and led a discussion on the RPC County Characteristics sheets and each of the following Plan sections. All Appendices were approved for the Plan.*
    - County Characteristics & Topography (2 sheets)
    - Appendix E: Pre-assignment Rules
    - *Review and adoption of Appendix E*
    - Appendix G: Inter-Regional Coordination Procedures and Procedures for Resolution of Disputes That May Arise Under FCC Approved Plans
    - *Review and adoption of Appendix G*
    - Appendix K: Certification of Open Meetings
    - *Review and adoption of Appendix K*
- Old Business … *Frank reminded all to register on NIIX to download and view Plan documents. Also, new WebEx instructions will be posted on NIIX for each meeting.*
- New Business… *Frank advised all counties to review the Characteristics & Topography sheets and send corrections if needed to* Carol.sutherland@dps.texas.gov
- Opportunity for public comment … *none*
- Establish future meetings and locations … *Frank reminded all to meet again via WebEx for the August meeting, and the September meeting will be in San Angelo on the 27th at the Concho Valley COG facility. All meetings start at 1:30 pm.*
    - *August 21, 2012 – this is a WebEx meeting; instructions will be emailed with meeting notice.*
    - *September 27, 2012 – San Angelo*
- Adjourn… *Frank adjourned the meeting at 2:45 pm.*

- Welcome … *Frank Mendez, Region 50 Chair welcomed all to the on-line WebEx meeting.*
- Call to Order and thank you for participating … *Frank explained the importance of developing the 700 MHz Plan and thanked all for participating.*
- COG roll call: Attendees included CVCOG - 1; RGCOG – 2; Counties: El Paso – 4; Ysleta Del Sur Pueblo Indian Nation – 4; WCTCOG – 4; State Agencies – 3; Total = 18.
- Texas Reports … *Frank*
    - *Operation Texas Talks (OTT)… Good News! Texas Municipal League (TML) Legislative and Policy Committee voted to support legislation to fund OTT; the recommendation will now go to the Executive Board for approval.*
    - *Narrowband Compliance … January 2013…this is extremely important, please share this information with all organizations in your area.*
    - *FCC announced two spectrum sharing agreements with Mexico enabling advanced public safety and commercial communications in the Mexico Border area.*
- Review, correct and approve June 20 Minutes, and July 11 Minutes … *Frank, minutes for both June 20 and July 11 meetings were approved.*
- Region 50 Plan Document Review…*Frank*
    - Appendix F: Channel Allotment Reports …*Individual counties discussed the reports. Channel Allotment Reports were adopted.*
    - Appendix H: Texas Interoperability Guide (Texas State Interoperable Channel Plan [TSICP]) …*discussed the interoperability guide, and sharing on a trunked radio system... TSICP was adopted for 700 MHz interoperability.*
    - Appendix J: 698-806 MHz Band Protocol with Mexico Border … *the Protocol Between the Department of State of the United States of America and the Secretariat of Communications and Transportation of the United Mexican States Concerning the Allotment and Use of the 698-806 MHz Band for Terrestrial Non-Broadcasting Radio communication Services Along the Common Border was reviewed, discussed and adopted.*
- Old Business … *none*
- New Business… *Frank, because of the new Spectrum Sharing Agreement with Mexico that paves the way for completion of 800MHz rebanding. Region 50 will host a dual 700MHz / 800 MHz call in November or December to review these new guidelines*.
- Opportunity for public comment … *none*
- Establish future meetings and locations (meetings normally start at 1:30)… *Frank*
    - *September 27, 2012 – the meeting will be in San Angelo at the Concho Valley COG facility; this meeting will not have WebEx capability.*
    - *October 17th – WebEx meeting*
    - *November XX - discussed having a FCC representative review the new Mexico agreement, requirements and timeline; meeting date will be decided at the Sept. meeting.*
- Adjourn…*meeting adjourned at 4:46 pm.*

1. Welcome … *Tom Mann, Region 50 Vice-Chair: Welcome, and thank you Concho Valley COG for hosting this meeting of the Region 50 RPC.*
2. Call to Order and thank you for participating … *Tom*
3. COG roll call; *attendees: CVCOG = 5, WCTCOG = 1; Counties: Irion = 1, Reagan = 2, Tom Green = 3, Ector = 1, Howard = 1, Taylor = 2, State Agencies = 3, Public = 2.*
4. Texas Reports … *Tom provided participants with information and discussed OTT, Narrowband for schools, and the 4.9 GHz Band.*
    - *Operation Texas Talks (OTT) Action Plan. Please plan to attend the TxICC WebEx on Oct. 24, 2012.*
    - *Narrowband Compliance by January 2013…NPSTC Announcement: Colleges, Universities, and K-12 Schools …FCC's Narrowbanding Mandate Affects You— please share the Narrowband information sent with your meeting notice with schools and universities in your area.*
    - *4.9 GHz Band (4.94 – 4.99 GHz) Issues: Coordination and regional planning — are agencies in Region 50 using 4.9 GHz? If so, please go to www.npstc.org to learn more about 4.9 GHz issues.*
    - Texas PS LTE Update… *Mike Barney, DPS Communications Technical Coordinator gave an educational presentation and update on the status of Texas PS-LTE. City of Abilene requested additional information and next steps.*
5. Review, correct and approve August 29, 2012 Minutes … *Tom presented the minutes, Nicole Gonzalez, CVCOG moved for approval, Greg Goettsch, City of Abilene 2nd motion, all approved.*
6. *Region 50 Plan Review and Approval to Send to Adjacent Regions for Consensus…* *Tom discussed the Plan and Appendices, and suggested adding specific details to Section 8.4: Monitoring of Calling Channels; Nicole Gonzalez, CVCOG moved for approval, Destin Wilha Reagan County SO 2nd motion, all approved.*
7. Old Business … *None*
    - New Business… *Tom discussed the new Spectrum Sharing Agreement with Mexico and how it may impact public safety agencies in Region 50. The new regulations must be incorporated into the existing Region 50: 800 MHz Plan.*
        - *Region 50: 700/800 MHz combined meeting when FCC timeline is established.*
8. Opportunity for public comment … *none*
9. Establish future meetings and locations (meetings normally start at 1:30)… *Tom*
    - *October 17th – WebEx meeting, (review status of adjacent regional agreements to Region 50 Plan)*
    - *January XX, 2013 - WCTCOG, Abilene to host this meeting (if approval is received from all adjacent regions, review and approve completed Plan and Appendices to submit to the FCC)*
10. Adjourn.

Region 50: 700 MHz RPC October 17, 2012 Meeting Minutes

- Welcome: *Frank Mendez, Region 50 Chair, Welcome to this WebEx meeting.*
- Call to Order: *Frank, thank you for participating*
- COG roll call; *Frank: Attendees, CVCOG = 1, RGCOG = 2, Counties: El Paso = 1, Tom Green = 1, Ector = 3, Howard = 1, Taylor = 2, State = 2, and YDSP = 2.*
- Texas Reports
    - Operation Texas Talks (OTT) Action Plan: *Frank reviewed the handout and timeline, and discussed the importance of educating your elected officials on HB 442 and Mission Critical Communications for Public Safety.*
- Review, correct and approve September 27, 2012 Meeting Minutes: *Frank asked for corrections, Minutes were approved as is.*
- Region 50 Plan:
    - Status of approval from adjacent regions. *Carol Sutherland, Secretary: Agreement documents received from Regions 49, and 53; contacting Regions 29, 52 again; Region 40 requested modifying the Agreement by allowing a dispute contact via email and not requiring contact via CAPRAD. NRPC advised this was allowable; a modified Agreement was sent to Region 40 for signature.*
    - Questions or discussion of the Region 50 Plan. *Carol: The approved Plan and all Appendices are on NIXX, available for you to download and review.*
- Old Business: To download the complete Plan go to: www.niix.org; access the Region 50: 700 MHz Planning Committee Community (left side of your screen); click on Plan Documents and download. *Carol demonstrated Plan access via NIXX and CAPRAD.*
- New Business:
    - *Frank discussed the new Spectrum Sharing Agreement with Mexico, this replaces a previous agreement and paves the way for completion of 800MHz rebanding. These new guidelines must be incorporated into the existing Region 50: 800 MHz Plan.*
        - *Region 50: 700/800 MHz combined meeting when FCC timeline is established.*
- Opportunity for public comment. *None*
- Establish future meetings and locations (meetings normally start at 1:30). *Frank:*
    - *December 5, 2012, Wednesday, (tentative) WebEx meeting with presentations by FCC representatives on the new spectrum agreement with Mexico.*
    - *January 9, 2013, Wednesday, (tentative) WCTCOG, Abilene (if approval is received from all adjacent regions, review and approve completed Plan and Appendices to submit to the FCC)*
- Adjourn.

700 MHz Public Safety RPC 12/5/12 WebEx Meeting Minutes

1) **C**all to order of 700 MHz RPC meeting … *Frank Mendez, Chair*
2) Texas Reports … *Frank Mendez provided information on the current status of the Texas 700 LTE project, and the importance of all contacting their elected officials regarding OTT.*
   i) Update on Texas Public Safety Broadband
   ii) Update on Operation Texas Talks Action Plan
3) Old Business:
   i) FCC Narrowband Reminder … *Frank reminded everyone of the 2013 deadline.*
   ii) Status of 700 MHz Plan …*Carol Sutherland, Region 50 Secretary, reported all adjacent regions were sent copies of the Plan for approval; we are now awaiting receipt of Letters of Concurrence and signed Agreements.*
   iii) Sent to adjacent Regions … *Carol: NCTCOG requested Appendix M "Inter-Regional Coordination Procedures and Procedures for Resolution of Disputes that may arise under FCC Approved Plans) Agreement be modified to provide concerns on correspondence and/or documents via CAPRAD <u>or</u> email. This was approved by the RPC.*
4) New Business: …none
5) Opportunity for public comment …none
6) Next meeting scheduled: …*Carol: suggested moving the next meeting date out a few weeks in order to follow-up with adjacent regions on Plan agreements.*
   a) ~~*January 9, 2013*~~ Abilene meeting, hosted at the West Central Texas COG, 3702 Loop 322, Abilene, Texas 79602-7300, (325) 672-8544. *Carol will send out a meeting notice with the new date.*
7) Meeting adjourned…*Frank Mendez*

Location: West Central Texas COG, 3702 Loop 322, Abilene, Texas

700 MHz Public Safety Planning Committee Meeting

8) Welcome. *Tom Mann, Region 50 Vice Chair.*
9) Call to Order and County roll call. *Tom: this meeting includes WebEx capability. Total Attendees: CVCOG = 1, RGCOG = 2, WCTCOG = 1, Counties: Coke = 1, Irion = 1, Coleman = 1, McCulloch = 1, Sterling = 1, Tom Green = 3, Taylor = 2; State = 2, Federal = 3, Public = 2, and YDSP = 3.*
10) Texas Reports: *Tom reviewed and discussed the following information that was previously presented by the SWIC to the TxICC via WebEx:*
    i) *DHS/OEC sponsored SCIP Workshop, April 9-10, 2013, Austin, TX*
    ii) *Update on Texas Public Safety Broadband…We need your help! To get involved go to: http://survey.constantcontact.com/survey/a07e6phk39iha2zmiw8/start*
    iii) *Update on TxICC Governance Structure…COG delegates should be elected by March 30, 2013, and a Resolution should be sent to the SWIC from the COG naming the delegates.*
    iv) *Update on Operation Texas Talks Action Plan…Educate your State Legislators on the needs of Mission Critical Emergency Communications.*
    v) *FCC Narrowband Enforcement Advisory.*
11) Old Business:
    i) Approval of previous meeting minutes. *Tom: all approved as is.*
    ii) Status report on Region 50 Plan approvals from adjacent regions. *Carol Sutherland, Secretary: Plan Agreement documents have been received from all adjacent regions.*
12) New Business: *Tom:*
    i) Final Plan approval for submission to FCC. *Requested a motion for final approval of the Region 50: 700 MHz Plan to submit to the FCC. Motion was made and seconded…all approved.*
    ii) Send Region 50 Plan to FCC and post on www.CAPRAD.org. *The approved Region 50 Plan and all new documents and transmittals will now be placed on CAPRAD.*
    iii) Transition from NIIX.org to CAPRAD.org. *NIIX will not be updated with new materials, however, a transition to CAPRAD note will be placed on it.*
13) Opportunity for public comment. *None*
14) Next meeting date: Annual Meeting: Tuesday, March 19, 2013 (tentative)
15) Meeting adjourned

Region 50: 700 MHz Plan
Appendix C5: Master Contact List
The Appendix C5 list of public safety contacts was developed from information provided by: Sheriff's Association of Texas, Texas Department of Public Safety, Southwest Border Communications Working Group, Texas Association of Regional Councils, Concho Valley Council of Governments, Permian Basin Regional Planning Commission, Rio Grande Council of Governments, and West Central Texas Council of Governments. This list includes contact information for more than 400 Public Safety persons.

Meeting invitations were sent to all contacts via U. S. Mail and email. The master list has been revised to include new folks as they were identified. The contacts are listed by Council of Government (COG) / County, State and Federal agencies, and the public. After the 4th RPC meeting, the master list was purged to active members, County Sheriffs, COG Emergency Preparedness & Communications Planners, and those requesting continued membership. See Appendix B for a listing of active Region 50 members.

County	FirstName	LastName	Title	Agency	Email	Mailing Address	City	St	Zip	Work Phone
	Concho Vallley COG Contacts									
CVCOG	Jeffrey	Sutton	Exe.Dir.	CVCOG	jsutton@cvcog.org	PO Box 60050	San Angelo	TX	76906-0050	325-944-9666
CVCOG	Jim	Koca	HLS Dir.	CVCOG	jim@cvcog.org	2801 W. Loop 306, Suite A	San Angelo	TX	76904	325-944-9666
CVCOG	Nicole	Gonzalez	HLS Planner	CVCOG	nicole@cvcog.org	2801 W. Loop 306, Suite A	San Angelo	TX	76904	325-944-9666
CVCOG	Bea	Ramsey	Asst. Emer. Prepardness/ CERT Coord.	CVCOG	bea@cvcog.org	2801 W. Loop 306, Suite A	San Angelo	TX	76904	325-944-9666
COKE	Wayne	McCutchen	Sheriff	Co. Sheriff's Office	cokeso@co.coke.tx.us	PO Box 9	Robert Lee	TX	76945-0009	325-453-2717
COKE	Lorrie	Martin	911 Coordinator	Coke County	cokecounty911@hotmail.com	13 E. 7 Street	Robert Lee	TX	76945	325-453-2641
	Roy	Blair	County Judge	Coke County	roy.blair@co.coke.tx.us	13 East 7th	Robert Lee	TX	76945	325-453-2641
CONCHO	Richard	Doane	Sheriff	Co. Sheriff's Office	sheriff@co.concho.tx.us	PO Box 67	Paint Rock	TX	76866-0067	325-732-4312
	Allen	Amos	County Judge	County Judge		P. O. Box 158	Paint Rock	TX	76866	325-732-4321
CROCKETT	Roy Glenn	Sutton	Sheriff	Co. Sheriff's Office	ccsorsutton@wcc.net	PO Box 1931	Ozona	TX	76943-1931	325-392-2661
	Fred	Deaton	County Judge	Crockett County		P. O. Box 1857	Ozona	TX	76943	325-392-2965
IRION	Jimmy	Martin	Sheriff	Co. Sheriff's Office	jimmy.martin@co.irion.tx.us	PO Box 859	Mertzon	TX	76941-0859	325-835-2551
	Tom	Aiken	County Judge	Irion County	tom.aiken@co.iron.tx.us	P. O. Box 770	Mertzon	TX	76941	325-835-4361
KIMBLE	Hilario	Cantu	Sheriff	Co. Sheriff's Office	hilario.cantu@co.kimble.tx.us	415 Pecan Street	Junction	TX	76849	325-446-2766
	Marvin	Ivy	Police Chief	City of Junction	marvin.ivy@cityofjunction.com	102 N 5th Street	Junction	TX	76849	325-446-2913
	Cecil	Conner	Fire Chief	City of Junction	kcrfa@yahoo.com	730 Main Street	Junction	TX	76849	325-446-2622
	Andrew	Murr	County Judge	Kimble County	andrew.murr@co.kimble.tx.us	501 Main Street	Junction	TX	76840	325-446-2724
MASON	James "Buster"	Nixon	Sheriff	Co. Sheriff's Office	mcsobuster600@verizon.net	PO Box 391	Mason	TX	76856-0391	325-347-5252
	Jerry	Bearden	County Judge	Mason County		P. O. Box 1726	Mason	TX	76856	325-347-5556
McCULLOCH	Earl	Howell	Sheriff	Co. Sheriff's Office	mccullochso@yahoo.com	300 W Main	Brady	TX	76825	325-597-2290
McCULLOCH	Charlie	Derrick	Police Chief	City of Brady	cderrick@cityofbrady.com	209 S Elm	Brady	TX	76825	325-597-2121
	Lyle	Daniel	Fire Chief	City of Brady	ldaniel@bradyfdems.com	216 W Commerce	Brady	TX	76825	325-897-2311

	Danny	Neal	County Judge	McCullouch County	judgeneal@hotmail.com	199 Courthouse Square Rm 302	Brady	TX	76825	325-597-0733 x 4
MENARD	Buck	Miller	Sheriff	Co. Sheriff's Office	menardcountyso@yahoo.com	PO Box 307	Menard	TX	76859-0307	325-396-4705
	Jeff	Whitson	911-Emerg. Mgmt	Menard County	jw1254@yahoo.com	PO Box 1038	Menard	TX	76859-1038	325-396-4969
	Richard	Cordes	County Judge	Menard County		P. O. Box 1038	Menard	TX	76859	325-396-4682
REAGAN	Jeff	Garner	Sheriff	Co. Sheriff's Office	jgarner@reagancounty.org	PO Box 832	Big Lake	TX	76932-0832	325-884-2424
	Larry	Isom	County Judge	Reagan County		P. O. Box 100	Big Lake	TX	76932	325-884-2665
SCHLEICHER	David	Doran	Sheriff	Co. Sheriff's Office	drdoran@sccn2.net	PO Box 1119	Eldorado	TX	76936-1119	325-853-2737
	Johnny	Griffin	County Judge	Schleicher County		County Courthouse	Eldorado	TX	76936	325-853-2766
STERLING	Tim	Sanders	Sheriff	Co. Sheriff's Office	sc601@verizon.net	PO Box 928	Sterling City	TX	76951-0928	325-378-4771
	Ralph	Sides	County Judge	Sterling County		P. O. Box 819	Sterling City	TX	76951	325-378-3481
SUTTON	Joe	Fincher	Sheriff	Co. Sheriff's Office	suttonsheriff@verizon.net	309 N E Oak Street	Sonora	TX	76950	325-387-2288
	Tim	Jarratt	Police Chief	City of Sonora	police@sonoratx.net	609 S Water Ave	Sonora	TX	76950	325-387-3888
	Rick	Cearly	Fire Chief	Sonora Volunteer Fire Department		510 S Concho	Sonora	TX	76950	325-387-2428
	Carl	Teaff	Fire Marshall	Sonora Volunteer Fire Department		510 S Concho	Sonora	TX	76950	325-387-2428
	Carla	Garner	County Judge	Sutton County		P. O. Box 1212	Sonora	TX	76950	325-387-2711
TOM GREEN	John Truman	Richey	Sheriff	Co. Sheriff's Office	truman.richey@co.tom-green.tx.us	222 W Harris Ave	San Angelo	TX	76903	325-655-8111
	Steve	Mild		Co. Sheriff's Office	Steve.Mild@co.tom-green.tx.us	223 W Harris Ave	San Angelo	TX	76903	325-655-8111
TOM GREEN	Rita	Guthrie	CIU Coordinator	Co. Sheriff's Office	rita.guthrie@co.tom-green.tx.us	222 W Harris Ave	San Angelo	TX	76903	325-658-3921
TOM GREEN	Sandy	Elliott	Asst. CIU Coord	Co. Sheriff's Office	sandra.elliott@co.tom-green.tx.us	222 W Harris Ave	San Angelo	TX	76903	325-657-4336
TOM GREEN	Tim	Vasquez	Police Chief	City of San Angelo	tim.vasquez@sanangelopolice.org	401 E Beauregard Ave	San Angelo	TX	76903	325-657-4355
TOM GREEN	Brian	Dunn	Fire Chief	City of San Angelo	briand@safiredept.com	306 W 1st Street	San Angelo	TX	76901	325-653-3318
TOM GREEN	Mike	Brown	County Judge	Tom Green County	mike.brown@co.tom-green.tx.us	112 W. Beauregard	San Angelo	TX	76903	
Permian Basin Regional Planning Commission Contacts										432-563-1061
COG	Terri	Moore	Exe.Dir.	PBRPC	tmoore@pbrpc.org	PO Box 60660	Midland	TX	79711-0660	432-563-1061
COG	Barney	Welch	HLS Dir.	PBRPC	bwelch@pbrpc.org	PO Box 60660	Midland	TX	79711-0660	432-563-1061
COG	Bonnie	Clark	HLS Planner	PBRPC	bclark@pbrpc.org	PO Box 60660	Midland	TX	79711-0660	432-563-1061
COG	Gail	Robinette	9-1-1 Dir.	PBRPC	gail.robinette@pbrpc911.org	PO Box 60660	Midland	TX	79711-0660	432-563-1061
COG	Laura	Torres	9-1-1 Program Manager	PBRPC	laura.torrex@pbrpc911.org	PO Box 60660	Midland	TX	79711-0660	432-563-1061
COG	Abel	Gamez	GIS Coord.	PBRPC	abel.gamez@pbrpc911.org	PO Box 60660	Midland	TX	79711-0660	432-563-1061
COG	Carly	Collins	9-1-1 Database	PBRPC	carly.collins@pbrpc911.org	PO Box 60660	Midland	TX	79711-0660	432-563-0672
JRAC	Connie	Thompson	Executive Dir.	JRAC	txjrac.connie@att.net	2910 LaForce Blvd	Midland	TX	79706	
								TX		432-523-5545
ANDREWS	Mike	Cook	EMC/911 Supervisor	Andrews County	mcook@co.andrews.tx.us		Andrews	TX	79714	432-523-5545
	Sam	Jones	Sheriff	Co. Sheriff's Office	sjones@co.andrews.tx.us	201 N Main Rm 113	Andrews	TX	79714	432-523-5675
	Dolphus	Jones	Chief	City of Andrews DPS	bjones@cityofandrews.org	130 N. Main St	Andrews	TX	79714	432-523-5675
	Joe	Harper	Fire Chief	City of Andrews FD	jwharper@cityofandrews.org	130 N. Main St	Andrews	TX	79714	432-523-6940

	Joyce	Boren	EMT-P	Andrews City and CO	pdmedic_230@yahoo.com	130 N. Main St	Andrews	TX	79714	432-464-2177
	Shannan	Clawson, RN		Permian Regional Medical Center	sclawson78@hotmail.com	P.O. Box 2108	Andrews	TX	79714	806-756-4431
BORDEN	Benny	Allison	EMC/Dep Sheriff	Borden CO	borcenco_emc@yahoo.com	P.O. Box 115	Gail	TX	79738-0115	806-756-4431
	Billy	Gannaway	Sheriff	Co. Sheriff's Office	billy.gannaway@co.borden.tx.us	PO Box 115	Gail	TX	79738-0115	806-756-4405
	Buster	Taylor	Fire Chief			P.O. Box 156	Gail	TX	79738	
	Mike	Valentine	EMS Director		valentine@poka.com			TX		432-558-1008
CRANE	Roy	McGaa	EMC	City of Crane	mmcgaa@att.net	115 W 6th Street	Crane	TX	79731	432-558-3571
	Robert	DeLeon	Sheriff	Co. Sheriff's Office	sheriff@co.crane.tx.us	PO Box 1175	Crane	TX	79731-1175	432-558-3743
	Andy	Aguilar	Chief Deputy	City of Crane	aaguilar@co.crane.tx.us	115 W 6th Street	Crane	TX	79731	432-558-2212
	JD	Smith	Police Chief	City of Crane	cranepd@sbcglobal.net	115 W 6th Street	Crane	TX	79731	432-558-2361
	Barry	Ingram	Fire Chief	City of Crane	cfd501@classicnet.net	PO Box 627	Crane	TX	79731	432-558-1159
	Diane	Yeager		Crane County Hospital District	dyeager@cranememorial.org	1310 S. Alford	Crane	TX	79731	806-872-2124
DAWSON	Fred	Vera	EMC	City of Lamesa	fvera@ci.lamesa.tx.us	307 N 1st Street	Lamesa	TX	79331	806-872-4377
	Larry	Duyck	Fire Chief	City of Lamesa	lamesafd@ci.lamesa.tx.us	307 N 1st Street	Lamesa	TX	79331	806-872-7560
	Kent	Parchman	Sheriff	Co. Sheriff's Office	sheriff@lamesa.esc17.net	PO Box 1268	Lamesa	TX	79331-1268	806-872-7560
	Matt	Hogg	Captain	Co. Sheriff's Office	matthogg@windstream.net	PO Box 1268	Lamesa	TX	79331	806-872-2121
	Richard	Garcia	Police Chief	City of Lamesa	lpdchief2000@yahoo.com	601 S 1st Street	Lamesa	TX	79331	806-872-2183
	Jeana	Amos	Trauma Nurse Coordinator	Medical Arts Hospital	jamos@medicalartshospital.org			TX		806-872-3464
	Priscilla	Teague	EMS Director	Dawson County	slb122273@hotmail.com	P. O. Box 1268	Lamesa	TX	79331	432-498-4025
ECTOR	Pat	Patton	Assistant EMC	Ector County	pattopj@co.ector.tx.us	PO Box 2066	Odessa	TX	79760	432-335-3050
	David	Gleaton	EMC/LT ECSO	Ector County	davidgleaton@ectorcountysheriff.us	PO Box 2066	Odessa	TX	79760	432-247-0509
	Stan	Tinney	EMC	City of Odessa	stinney@odessa-tx.gov			TX		432-332-0911
	Kevin	Jones	9-1-1 District Executive Director	Ector County	kevin@ector911.org	700 N. Grant Street, Ste. 100	Odessa	TX	79761	432-335-3050
	Mark	Donaldson	Sheriff	Co. Sheriff's Office	markdonaldson@ectorcountysheriff.net	PO Box 2066	Odessa	TX	79760-2066	432-335-3310
	Timothy	Burton	Police Chief	City of Odessa	tburton@odessa-tx.gov	205 N Grant	Odessa	TX	79761	432-257-0508
	Roger	Boyd	Fire Chief	City of Odessa	ofd@odessa-tx.gov	1100 W 2nd Street	Odessa	TX	79761	432-335-8081
	Sal	Ortiz		Carol's Ambulance	bigdog54so@gmail.com	126 S. Dixie	Odessa	TX	79761	432-553-2224
	Matt	Spratlen		Gardendale VFD		P.O. Box 453	Gardendale	TX	79758	432-827-3937
	Jenean	Bragg	EMT-I	Goldsmith VFD	jeaneanbragg@sbcglobal.net	P.O. Box 27	Goldsmith	TX	79741	432-640-2672
	Michael	Marshall		MCH-Carestar	marshallm@echd.org	500 W. 4th Street	Odessa	TX	79761	432-640-1191
	Phyllis	Craig-Biaco	RN	Medical Center Hospital	pblanco@echd.org	500 W. 4th Street	Odessa	TX	79761	432-640-1120
	Sharon	Loyd		Medical Center Hospital	slloyd@echd.org	500 W. 4th Street	Odessa	TX	79761	432-335-6471

	Stephen	Berry	Associate Professor	Odessa College	sberry@odessa.edu	210 W. University	Odessa	TX	79764	432-257-0506
	Jack	Hamilton	EMS Assistant Chief	City of Odessa	jhamilton@odessa-tx.gov	P.O. Box 4398	Odessa	TX	79761	432-582-8855
	Pam	Castellano	Emergency Preparedness	Odessa Regional Medical Center	pcastellano@iasishealthcare.com	520 E. 6th Street	Odessa	TX	79761	432-550-9410
	Krisenda	Criswell		Permian Basin Ambulance, Inc.	meddics@aol.com	1817 E. 6th Street	Odessa	TX	79768	432-352-2235
	Joe	Olivarez		South Ector County VFD		P.O. Box 7571	Odessa	TX	79760	432-580-4153
	Jimmy	Ellis	Chief	West Odessa Fire Department	jimellis@swbell.net	P.O. Box 70107	Odessa	TX	79761	432-498-4710
	Mike	McAnally	Senior Engineer	TxDOT	mmcanal@dot.state.tx.us			TX		432-758-4031
GAINES	Chad	Hallum	EMC	Gaines County	chad.hallum@co.gaines.tx.us	101 S Main St	Seminole	TX	79360	806-487-6730
	Dana	Lambert	EMC	City of Seagraves	seagravesemc@dms911.com	309 Hill Ave.	Seagraves	TX	79359	806-487-6730
	Keith	Lambert	EMC	City of Seagraves	ckl@dms911.com	309 Hill Ave.	Seagraves	TX	79359	432-758-9871
	Jon	Key	Sheriff	Co. Sheriff's Office	seminole_so_2005@yahoo.com	301 East Ave A	Seminole	TX	79360	432-758-9871
	Mickey	Browne	Chief	Seminole	mdbrowne@mywdo.com	309 Hill Ave.	Seagraves	TX	79359	806-387-2551
	Ruben	Lemon	Chief	Seagraves	seagravespoliced@mywdo.com	309 Hill Ave.	Seagraves	TX	79359	806-535-9144
	Chad	Orum	Fire Chief	Seagraves	corum@esc17.net	309 Hill Ave.	Seagraves	TX	79359	432-788-0354
	Bryan	Reed	Fire Chief	Seminole		101 S Main St	Seminole	TX	79360	432-209-0228
	Tony	Guffey	Trauma Nurse Coorinator	Memorial Hospital	tguffey@seminolehospitaldistrict.com			TX		432-758-8815
	Bryan	Taylor	EMS Director	City of Seminole	emsdir@mywdo.com	101 S Main St	Seminole	TX	79360	432-523-5545
GLASSCOCK	Kim	Halfmann	County Judge/EMD/EMC	Glasscock County	kim.halfmann@co.glasscock.tx.us	P.O. Box 67	Garden City	TX	79739	432-354-2361
	Keith	Burnett	Sheriff	Co. Sheriff's Office	gcsheriff@crcom.net	P.O. Box 89	Garden City	TX	79739	432-268-3948
	Russell	Halfmann	Fire Chief	Garden City VFD		P.O. Box 67	Garden City	TX	79739	432-270-3231
	Wendal	Halfmann	Fire Chief	St. Lawrence VFD		P.O. Box 67	Garden City	TX	79739	432-535-2255
	Jackie	Braden		Glasscock County Volunteer Ambulance	txjrac.jackie@att.net	P.O. Box 55	Garden City	TX	79739	432-267-1900
HOWARD	Terry	Chamness	EMC	Howard Co/City of Big Spring	tchamness@bigspringpd.net	610 S. Main St.	Big Spring	TX	79720	432 268 7687
	James	Colvin	Chief Security Officer	Big Spring State Hospital	james.colvin@dshs.state.tx.us	1901 N. Hwy 87	Big Spring	TX	79720	432-264-2550
	Lance	Telchik	Lietenant	Big Spring PD	LTelchik@bigspringpd.net	610 S. Main St.	Big Spring	TX	79762	432-264-2244
	Stan	Parker	Sheriff	Co. Sheriff's Office	stan.parker@co.howard.tx.us	PO Box 1149	Big Spring	TX	79721-1149	432-264-2560

	Lonnie	Smith	Police Chief	City of Big Spring	lsmith@bigspringpd.net	400 E 4th Street	Big Spring	TX	79720	432-264-2302
	Rich	Grove	Fire Chief	City of Big Spring	bjensen@mybigspring.com	1401 Apron Drive	Big Spring	TX	79720	432-267-1900
	Tommy	Sullivan	Director	Howard CO Emerg Comm District	HCECD911@crcom.net	500 Johnson	Big Spring	TX	79720	432-274-0473
	Debra	Wallace		Big Spring Air Evac Lifeteam	wallacedebra@are-evac.com	3300-B Rickabaugh	Big Spring	TX	79720	432-268-7389
	Marilyn	Clark		Big Spring State Hospital	marilyn.clark@dshs.state.tx.us	1901 N. Hwy 87	Big Spring	TX	79720	432-263-1211
	Randy	Vaughn		Scenic Mountain Medical Center	jonetta_sweatt@chs.net	1601 W. 11th Place	Big Spring	TX	79720	432-940-7934
LOVING	Harlan	Hopper	EMC	Loving CO	hbhopper@windstream.net	PO Box 104	Mentone	TX	79754	432-377-2411
	Billy	Hopper	Sheriff	Co. Sheriff's Office	hopb37@yahoo.com	PO Box 104	Mentone	TX	79754-0104	432-685-2557
MARTIN	Nat	Broadway	EMC	Martin County	natb79782@yahoo.com			TX		432-756-3336
	John	Woodward	Sheriff	Co. Sheriff's Office	m1mcso@yahoo.com	301 N. St. Peter	Stanton	TX	79782	432-756-3303
	Michael	Adams	Police Chief	City of Stanton	chief@soreheadpd.com	P. O. Box 370	Stanton	TX	79782	432-967-3526
	Lonnie	Long	Fire Chief	City of Stanton		P. O. Box 370	Stanton	TX	79782	432-517-2578
	Dusty	Wells	Fire Chief	City of Lenorah	dustywells@ymail.com			TX		432-607-2230
	Stewart	Coleman	EMS	Martin County	scoleman@martinch.org	P.O. Box 640	Stanton	TX	79782-0640	432-607-3207
	Stacey	Harris		Martin County Hospital District	sharris@martinch.org	P.O. Box 640	Stanton	TX	79782-0640	432-688-4160
MIDLAND	Dale	Little	EMC/Co. Fire Marshall	Midland CO/City of Midland	dale_little@co.midland.tx.us	2435 E Hwy 80	Midland	TX	79706	432-685-7337
MIDLAND	Patrick	Repman	Assistant EMC	Midland CO/City of Midland	prepman@midlandtexas.gov			TX		432-684-9911
MIDLAND	Joyce	Britcher	9-1-1 District	City of Midland	joyce@mecd.org	1110 W. Wall St.	Midland	TX	79701	432- 685-7550
MIDLAND	David	Flores	Communications Technician/COML	City of Midland	dflores@midlandtexas.gov		Midland	TX		432-685-7486
	Eva	Luna	Communications Supervisor/911	City of Midland	eluna@midlandtexas.gov	1110 W. Wall St.	Midland	TX	79701	432-688-4620
	B John	McDaniel	Radio Communications	Midland CO SO	bjohn@bjmcdaniel.net	PO Box 11287	Midland	TX	79701-1287	432-688-4600
	Gary	Painter	Sheriff	Co. Sheriff's Office	gary_painter@co.midland.tx.us	PO Box 11287	Midland	TX	79701-1287	432-685-7116
	Price	Robinson	Police Chief	City of Midland	probinson@midlandtexas.gov	601 N. Loraine	Midland	TX	79701	432-685-7330
	Robert	Isabell	Fire Chief	City of Midland	risabell@midlandtexas.gov	P.O. Box 1152	Midland	TX	79702	432-661-1444
	Leland	Hart	Fire Chief	Greenwood VFP				TX		432-230-9112
	Matt	McClure	Fire Chief	Northeast VFP	mat_mcclure@nevfd.org			TX		432-681-7613
	Sal	Garcia		Midland Health & Senior Services	cgarcia@midlandtexas.gov	3303 W. Illinois	Midland	TX	79703	432-685-1684

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COMANCHE	Keith	Anderson	Chief	Promotory Park VFD (Lake)		209 Broken Arrow St	Comanche	TX	76442	(254) 893-3244
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EASTLAND	Larry	Weikel	Chief	Cisco PD	cisco.pd@sbcglobal.net	504 Conrad Hilton Blvd	Cisco	TX	76437	254-725-6661
EASTLAND	Don	Gosnell	Chief	Cross Plains PD	don@crossplains.org	201 S Main Street	Cross Plains	TX	76443	254-734-2317
EASTLAND	Barbara	Fenley	Chief	Gorman PD	gormanpolicedept@yahoo.com	116 North Kent Street	Gorman	TX	76454	254-647-3232
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KNOX	Spike	Bryan	Chief	Munday VFD		112 E Main	Munday	TX	76371	(940) 658-3414
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Federal				ATF		310 N. Mesa, Suite 800	El Paso	TX	79901	915-633-7300

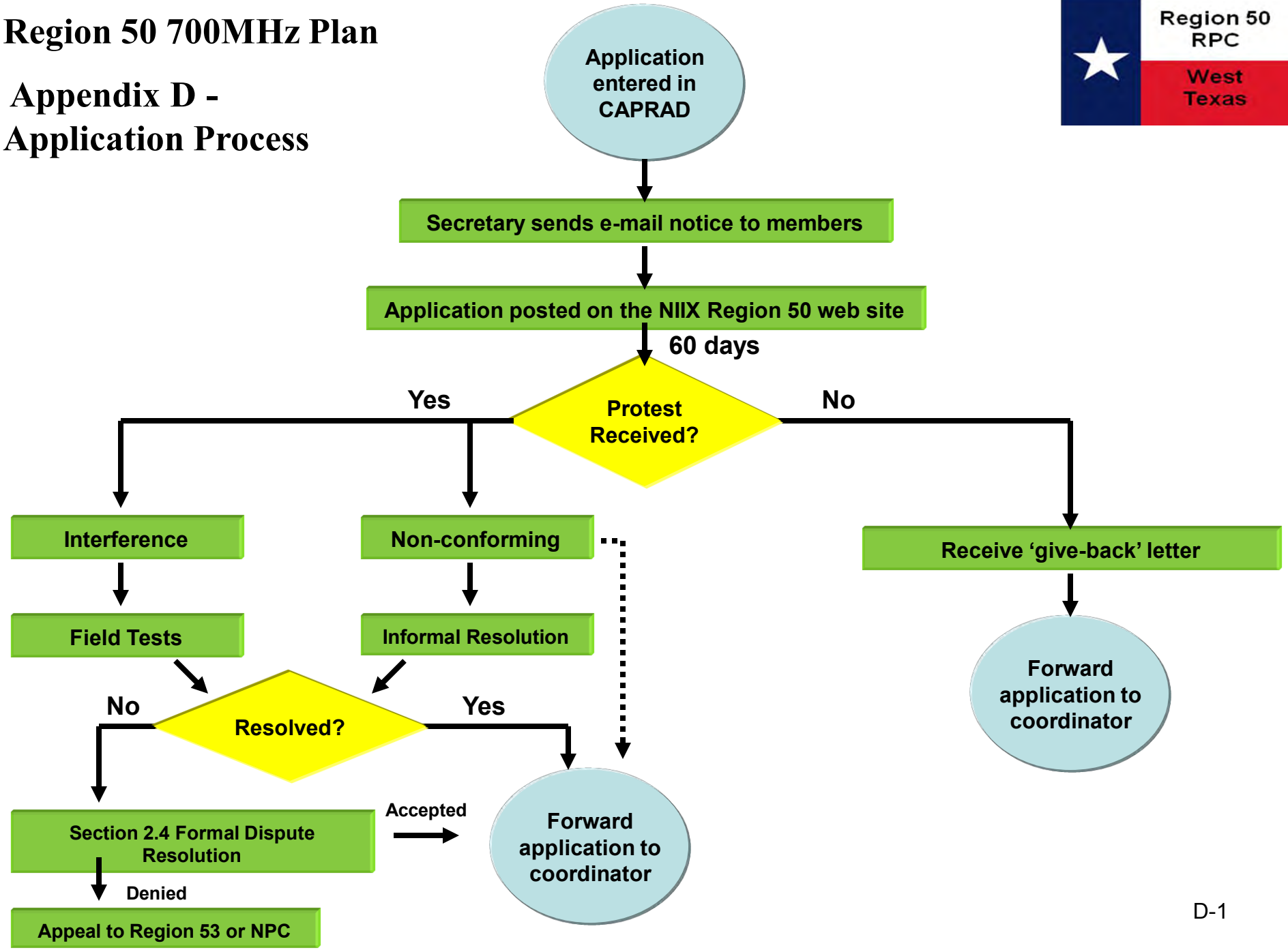
Federal				CBP		9400 Viscount, Suite 104	El Paso	TX	79925	915-832-6000
Federal	Jose	Morye		DEA		660 Mesa Hills Drive, Suite	El Paso	TX	79912	915-534-6779
Federal	Gerado	Payan		US Marshals Service		525 Magofin Street, Suite 1	El Paso	TX	79901	505-678-1234
Federal	Brigadier General J	Ferrari	Comanding General	White Sands Missle Range	teamwhitesands@wsmr.army.m	CSTE-DTC-WS-BD-M, Bl	WSMR	NM	88002	432- 570-0255
Federal	Corey	Richardson	Senior Agent	FBI Midland	crichardson@t3wireless.com		Midland	TX	79703	432-416-0032
Federal	Brent	Sheets	U.S. Marshals	U. S. Marshals Service, Midland Division	Brent.sheets@usdoj.gov		Midland	TX		
Federal	John	Gonzales	U.S. Marshals	U. S. Marshals Service, Midland Division	jgonzales@usdoj.gov					432-563-0672
Federal	Connie	Thompson	Executive Dirctor	JRAC	txjrac.connie@att.net	2910 LaForce Blvd.	Midland	TX	79706	505-827-9300
New Mexico	Robert	Shilling	Chief	New Mexico State Police	rober.shilling@state.nm.us	PO Box 1628	Santa Fe	NM	87504-1628	575-635-5212
New Mexico	Dolores Saldana	Caviness	Commissioner	Dona Ana Count	dcaviness@donaanacounty.org	845 N. Motel Blvd	Las Cruces	NM	88007	575-925-1911
New Mexico	Vincent	Pokluda	Grants Admin	Dona Ana Count	vincentp@donaanacounty.org	845 N. Motel Blvd	Las Cruces	NM	88007	575-525-1911
New Mexico	Garrison	Todd	Sheriff	Dona Ana County		845 N. Motel Blvd	Las Cruces	NM	88007	575-541-2066
New Mexico	Ken	Miyagishima	Mayor	Las Cruces, NM	mayor@las-cruces.org	PO Box 20000	Las Cruces	NM	88004	575-437-2210
New Mexico	John	Blansett	Sheriff	Otero County Sh	jblansett@co.otero.nm.us	3208 N. White Sands	Alamogordo	NM	88310	

Public and Vendor Contacts

										325-673-0867
	Travis	Hudsbeth	Vendor	Lan Communications	lansales@lanranch.com	PO Box 40	Clyde	TX	79510	325-695-6962
	Lewis	Bergman	Vendor	Texas Communications	lbergman@texascom.com	4309 Maple St	Abilene	TX	79602	325-792-2721
	Eddie	Bartee	Vendor	Albany Communications	beckylh@sbcglobal.net	408 S. Main St.	Albany	TX	76430	806-795-5823
	Kent	Leatherwood	Vendor	South Plains Communications	kleatherwood@sbcglobal.net	5811 W. 34th Street	Lubbock	TX	79407	800-423-1980
	Harry	Maddox	Vendor	Comtex	harrym@mcscomtex.com	600 E. Centre Park Blvd.	DeSoto	TX	75115	281-999-1441
	Gregory	Munchrath	Consultant	RCC Consultants, Inc.	gmunchrath@rcc.com	9450 Grogans Mill Road	The Woodlands	TX	77380	512-835-6491
	Mike	Simpson	President	Accent Telecommunications, Inc.	mike@mikesimpsontx.com; mike.simpson@accent-telecom.com	8760-A Research Blvd. Ste 208	Austin	TX	78758-6420	321.704.5111
	Nicholas	Falgiatore	Consultant	L.R.Kimball	nicholas.falgiatore@lrkimball.com	328 Innovation Blvd. Ste 222	State College	FL	16803	

Region 50 700MHz Plan

Appendix D - Application Process



Introduction

This paper describes a process for coordinating the initial block assignments of 700 MHz channels before details of actual system deployments is available. In this initial phase, there is little actual knowledge of the specific equipment to be deployed and the exact antenna sites locations. As a result, a simple, high-level method is proposed to establish guidelines for frequency coordination. When actual systems are deployed, additional details will be known and the system designers will be required to select specific sites and supporting hardware to control interference.

The calculations and examples presented in this Appendix are specific to ANSI/TIA/EIA-102 series (Project 25) standards, unless stated otherwise. General Use channels may employ other digital technologies. When evaluating interference potential involving other digital technologies, refer to the latest version of TIA Technical Services Bulletin TSB-88.

Overview

Assignments will be based on a defined service area for each applicant. This will normally be an area defined by geographical or political boundaries such as city, county or by a data file consisting of line segments creating a polygon that encloses the defined area. The service contour is normally allowed to extend slightly beyond the geo/political boundaries such that systems can be designed for maximum signal levels within the boundaries, or coverage area. Systems must also be designed to minimize signal levels outside their geo/political boundaries to avoid interference into the coverage area of other co-channel users.

For co-channel assignments, the 40 dBµ service contour will be allowed to extend beyond the defined service area by 3 to 5 miles, depending on the type of environment: urban, suburban or rural. The co-channel 5 dBµ interfering contour will be allowed to touch but not overlap the 40 dBµ service contour of the system being evaluated. All contours are (50,50).

For adjacent and alternate channels, the 60 dBµ interfering contour will be allowed to touch but not overlap the 40 dBµ service contour of the system being evaluated. All contours are (50,50).

Discussion

Based upon the ERP/HAAT limitations referenced in 47CFR ¶90.541(a), the maximum field strength will be limited to 40 dB relative to 1µV/m (customarily denoted as 40 dBµ). It is assumed that this limitation will be applied similar to the way it is applied in the 821-824/866-869 MHz band. That is, a 40 dBµ field strength can be deployed up to a defined distance beyond the edge of the service area, based on the size of the service area or type of applicant, i.e. city, county or statewide system. This is important that public safety systems have adequate margins for reliability within their service area in the presence of interference, including the potential for interference from CMRS infrastructure in adjacent bands.

The value of 40 dBµ in the 700 MHz band corresponds to a signal of -92.7 dBm, received by a half- wavelength dipole (l/2) antenna. The thermal noise floor for a 6.25 kHz bandwidth receiver would be in the range of -126 dBm, so there is a margin of approximately 33 dB available for “noise limited” reliability. Figure 1 shows show the various interfering sources and how they accumulate to form a composite noise floor that can be used to determine the “reliability” or probability of achieving the desired performance in the presence of various interfering sources with differing characteristics.

If CMRS out-of-band emissions (OOBE) noise is allowed to be equal to the original thermal noise floor, there is a 3 dB reduction[1] in the available margin. This lowers the reliability and/or the channel performance of Public Safety systems. The left side of Figure 1 shows that the original 33 dB margin is reduced by 3 dB to only 30 dB available to determine "noise + CMRS OOBE limited" performance and reliability.

There are also different technologies with various channel bandwidths and different performance criteria. C/N in the range of 17 – 20 dB is required to achieve channel performance.

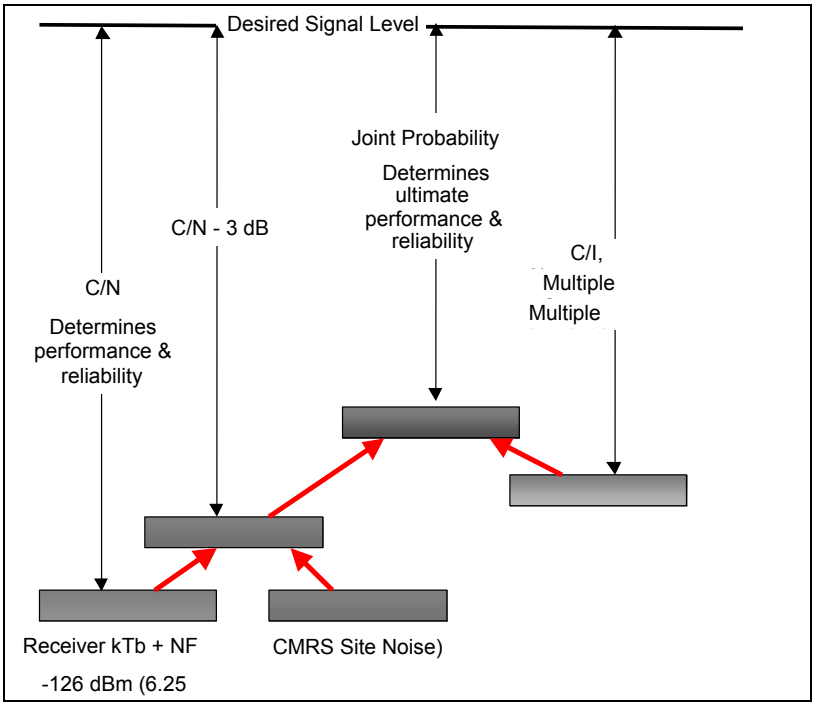


Figure 1 - Interfering Sources Create A "Noise" Level Influencing Reliability

In addition, unknown adjacent and alternate channel assignments need to be accounted for. The co-channel and adjacent/alternate sources are shown in the right hand side of Figure 1. At the edge of the service area, there would normally be only a single co-channel source, but there could potentially be several adjacent or alternate channel sources involved. It is recommended that co-channel assignments limit interference to <1% at the edge of the service area (worst case mile). A C/I ratio of 26.4 dB plus the required capture value (~10 dB) is required to achieve this goal.[2]

The ultimate performance and reliability has to take into consideration both the noise sources (thermal & CMRS OOBE) and all the interference sources. The center of Figure 1 shows that the joint probability that the both performance criteria and interference criteria are met must be determined.

Table 1 shows estimated performance considering the 3 dB rise in the noise floor at the 40 dBμ

[1] TR8 made this 3 dB allowance for CMRS OOBE noise during the meetings in Mesa, AZ, January 2001.
[2] See Attachment A for an explanation of how the 1% interference value is defined and derived.

signal level. Performance varies due to the different Cf/N requirements and noise floors of the different modulations and channel bandwidths.

Note that since little is known about the affects of terrain, an initial lognormal standard deviation of 8 dB is used.

Comparison of Joint Reliability for various				
Channel Bandwidth	6.25 kHz	12.5 kHz	12.5 kHz	25.0 kHz
Receiver ENBW (kHz)	6	6	9	18
Noise Figure(10 dB)	10	10	10	10
Receiver Noise Floor (dBm)	-126.22	-126.22	-124.46	-121.45
Rise in Noise Floor (dB)	3.00	3.00	3.00	3.00
New Receiver Noise Floor (dB)	-123.22	-123.22	-121.46	-118.45
40 dBu = -92.7 dBm	-92.7	-92.7	-92.7	-92.7
Receiver Capture (dB)	10.0	10.0	10.0	10.0
Noise Margin (dB)	30.52	30.52	28.76	25.75
C/N Required for DAQ = 3	17.0	17.0	18.0	20.0
C/N Margin (dB)	**13.52**	**13.52**	**10.76**	**5.75**
Standard deviation (8 dB)	8.0	8.0	8.0	8.0
Z	1.690	1.690	1.345	0.718
Noise Reliability (%)	**95.45%**	**95.45%**	**91.06%**	**76.37%**
C/I for <1% prob of capture	36.4	36.4	36.4	36.4
I (dBu)	3.7	3.7	3.7	3.7
I (dBm)	-129.0	-129.0	-129.0	-129.0
Joint Probability (C & I)	**94.7%**	**94.7%**	**90.4%**	**76.1%**
40 dBu = -92.7 dBm @ 770 MHz				

Table 1 Joint Probability For Project 25, 700 MHz Equipment Configurations.

These values are appropriate for a mobile on the street, but are considerably short to provide reliable communications to portables inside buildings.

Portable In-Building Coverage

Most Public Safety communications systems, today, are designed for portable in-building[3] coverage and the requirement for >95 % reliable coverage. To analyze the impact of requiring portable in building coverage and designing to a 40 dBμ service contour, several scenarios are presented. The different scenarios involve a given separation from the desired sites. Whether simulcast or multi-cast is used in wide-area systems, the antenna sites must be placed near the service area boundary and directional antennas, directed into the service area, must be used. The impact of simulcast is included to show that the 40 dBμ service contour must be able to fall outside the edge of the service area in order to meet coverage requirements at the edge of the service area. From the analysis, recommendations are made on how far the 40 dBμ service contour should extend beyond the service area.

Table 2 estimates urban coverage where simulcast is required to achieve the desired portable in building coverage. Several assumptions are required to use this estimate.

- Distance from the location to each site. Equal distance is assumed.

[3] Building penetration losses typically required for urban = 20 dB, suburban = 15 dB, rural = 10 dB.

- CMRS noise is reduced when entering buildings. This is not a guarantee as the type of deployments is unknown. It is possible that CMRS units may have transmitters inside buildings. This could be potentially a large contributor unless the CMRS OOBE is suppressed to TIA's most recent recommendation and the "site isolation" is maintained at 65 dB minimum.
- The 40 dBµ service contour is allowed to extend beyond the edge of the service area boundary.
- Other configurations may be deployed utilizing additional sites, lower tower heights, lower ERP and shorter site separations.
- Other configurations may be deployed utilizing additional sites, lower tower heights, lower ERP and shorter site separations.

Estimated Performance at 2.5 miles from each site				
Channel Bandwidth	6.25 kHz	12.5 kHz	12.5 kHz	25.0 kHz
Receiver Noise Floor (dBm)	-126.20	-126.20	-124.50	-118.50
Signal at 2.5 miles (dBm)	-72.7	-72.7	-72.7	-72.7
Margin (dB)	53.50	53.50	51.80	45.80
C/N Required for DAQ = 3	17.0	17.0	18.0	20.0
Building Loss (dB)	20	20	20	20
Antenna Loss (dBd)	8	8	8	8
Reliability Margin	8.50	8.50	5.80	-2.20
Z	1.0625	1.0625	0.725	-0.275
Single Site Noise Reliability (%)	**85.60%**	**85.60%**	**76.58%**	**39.17%**
Simulcast with 2 sites	97.93%	97.93%	94.51%	62.99%
Simulcast with 3 sites	99.70%	99.70%	98.71%	77.49%
Simulcast with 4 sites	99.96%	99.96%	99.70%	86.30%

Table 2, Estimated Performance From Site(s) 2.5 Miles From Typical Urban Buildings.

Table 2 shows for the example case of 2.5 miles that a single site cannot provide >95% reliability. Either more sites must be used to reduce the distance, or other system design techniques must be used to improve the reliability. For example, the table shows that simulcast can be used to achieve public safety levels of reliability at this distance. Table 2 also shows that the difference in performance margin requirements for wider bandwidth channels requires more sites and closer site-to-site separation.

Figures 2 and 3 show how the configurations would potentially be deployed for a typical site with 240 Watts ERP. This is based on:

· 75 Watt transmitter,	18.75 dBW
· 200 foot tower	
· 10 dBd 180 degree sector antenna	+10.0 dBd
· 5 dB of cable/filter loss.	- 5.0 dB
	23.75 dBW » 240 Watts (ERPd)

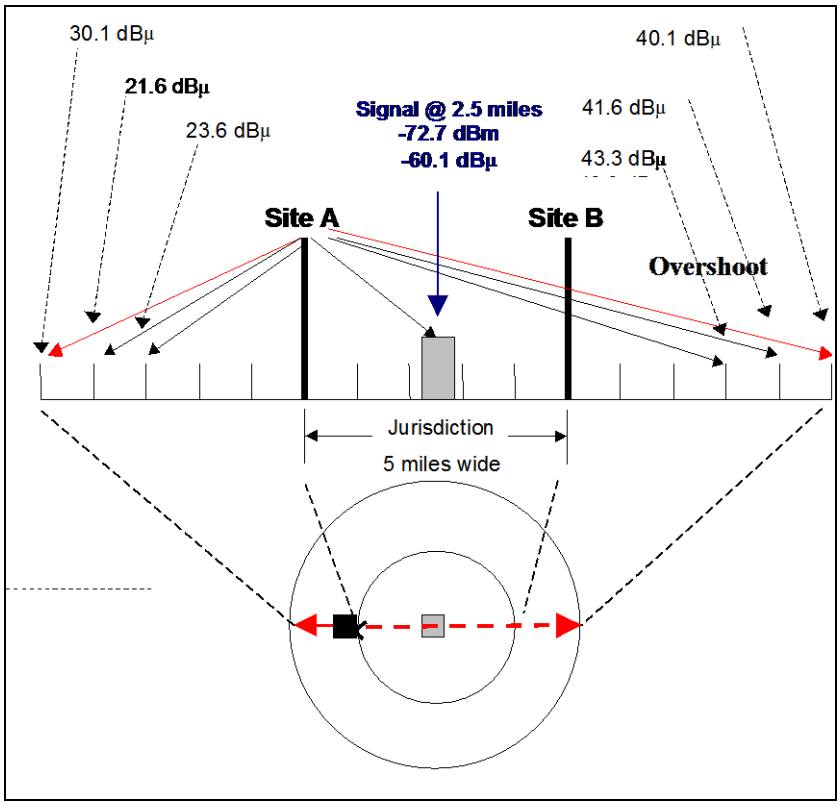


Figure 2 - Field Strength From Left Most Site.

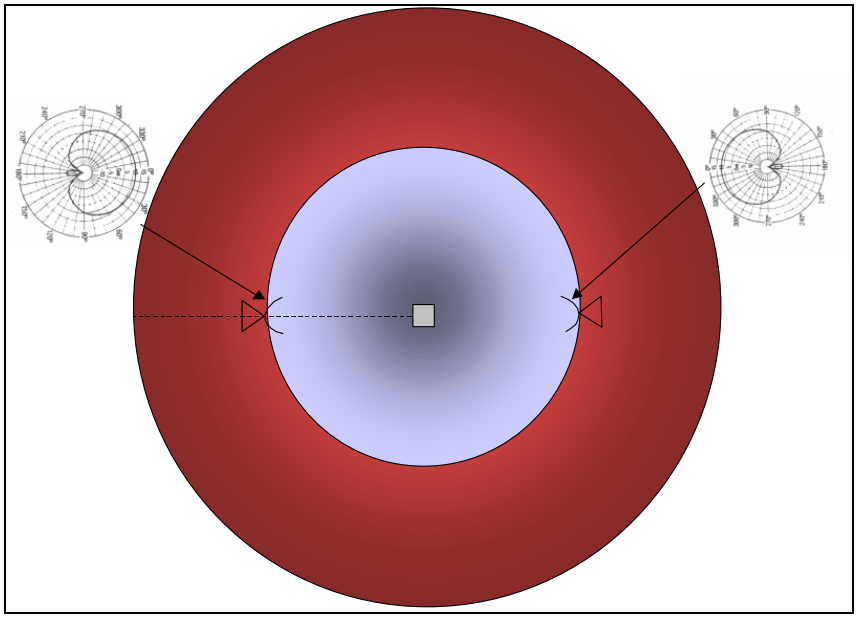


Figure 3 - Antenna Configuration Required To Limit Field Strength Off “Backside”

Figure 2 is for an urbanized area with a jurisdiction defined as a 5 mile circle. To provide the necessary coverage to portables in buildings at the center of the jurisdiction requires that the sites

be placed along the edge of the service area and utilize directional antennas oriented toward the center of the service area (Figure 3). In this case, at 5 miles beyond the edge of the service area, the sites would produce a composite field strength of approximately 40 dBµ. Since one site is over 10 dB dominant, the contribution from the other site is not considered. The control of the field strength behind the site relies on a 20 dB antenna with a Front to Back Ratio (F/B) specification as shown in Figure 3. This performance may be optomistic due to back scatter off local obstructions in urbanized areas. However, use of antennas on the sides of buildings can assist in achieving better F/B ratios and the initial planning is not precise enough to prohibit using the full 20 dB.

The use of a single site at the center of the service area is not normally practical. To provide the necessary signal strength at the edge of the service area would produce a field strength 5 miles beyond in excess of 44 dBµ. However, if the high loss buildings were concentrated at the service area's center, then potentially a single site could be deployed, assuming that the building loss sufficiently decreases near the edge of the service area allowing a reduction in ERP to achieve the desired reliability.

Instead of directional antennas, down-tilting of antennas to control the 40 dBµ is not practical in this scenario. For a 200 foot tall tower, the center of radiation from a 3 degree down-tilt antenna hits the ground at ~ 0.75 miles[4]. The difference in angular discrimination from a 200 foot tall tower at service area boundary at 5 miles and service contour at 10 miles is approximately 0.6 degrees, so ERP is basically the same as ERP toward the horizon. It would not be possible to

achieve necessary signal strength at service area boundary and have 40 dBµ service contour be less than 5 miles away.

Tables 3 and 4 represent the same configuration, but for less dense buildings. In these cases, the distance to extend the 40 dBµ service contour can be determined from Table 5.

Estimated Performance at 3.5 miles from each site				
Channel Bandwidth	6.25 kHz	12.5 kHz	12.5 kHz	25.0 kHz
Receiver Noise Floor (dBm)	-126.20	-126.20	-124.50	-118.50
Signal at 3.5 miles (dBm)	-77.7	-77.7	-77.7	-77.7
Margin (dB)	48.50	48.50	46.80	40.80
C/N Required for DAQ = 3	17.0	17.0	18.0	20.0
Building Loss (dB)	15	15	15	15
Antenna Loss (dBd)	8	8	8	8
Reliability Margin	8.50	8.50	5.80	-2.20
Z	1.0625	1.0625	0.725	-0.275
Single Site Noise Reliability (%)	**85.60%**	**85.60%**	**76.58%**	**39.17%**
Simulcast with 2 sites	97.93%	97.93%	94.51%	62.99%
Simulcast with 3 sites	99.70%	99.70%	98.71%	77.49%
Simulcast with 4 sites	99.96%	99.96%	99.70%	86.30%

Table 3 - Lower Loss Buildings, 3.5 Mile From Site(s)

[4] Use of high gain antennas with down-tilt on low-level sites is one of the causes of far-near interference experienced in the 800 MHz band.

Estimated Performance at 5.0 miles from each site				
Channel Bandwidth	6.25 kHz	12.5 kHz	12.5 kHz	25.0 kHz
Receiver Noise Floor (dBm)	-126.20	-126.20	-124.50	-118.50
Signal at 5.0 miles (dBm)	-82.7	-82.7	-82.7	-82.7
Margin (dB)	43.50	43.50	41.80	35.80
C/N Required for DAQ = 3	17.0	17.0	18.0	20.0
Building Loss (dB)	10	10	10	10
Antenna Loss (dBd)	8	8	8	8
Reliability Margin	8.50	8.50	5.80	-2.20
Z	1.0625	1.0625	0.725	-0.275
Single Site Noise Reliability (%)	**85.60%**	**85.60%**	**76.58%**	**39.17%**
Simulcast with 2 sites	97.93%	97.93%	94.51%	62.99%
Simulcast with 3 sites	99.70%	99.70%	98.71%	77.49%
Simulcast with 4 sites	99.96%	99.96%	99.70%	86.30%

Table 4 - Low Loss Buildings, 5.0 Miles From Site(s)

Note that the receive signals were adjusted to offset the lowered building penetration loss. This produces the same numerical reliability results, but allows increasing the site to building separation and this in turn lowers the magnitude of the “overshoot” across the service area.

Table 5 shows the field strength for a direct path and for a path reduced by a 20 dB F/B antenna. This allows the analysis to be simplified for the specific example being discussed.

	Site A Direct Path	Site B Back Side of 20 dB F/B Antenna
Overshoot Distance (mi)	Field Strength (dB□)	Field Strength (dB□)
1	73.3	53.3
2	63.3	43.3
2.5	60.1	40.1
3	57.5	37.5
4	53.3	**33.5**
5	50.1	30.1
…	**…**	
10	40.1	
11	**38.4**	
12	37.5	
13	36.0	
14	34.5	
15	33.0	

Table 5 - Field Strength Vs. Distance From Site

For the scenarios above, the composite level at the Service Contour is the sum of the signals from the two sites. The sum can not exceed 40 dBμ. Table 5 allows you to calculate the distance to Service Contour given the distance from one of the sites.

Scenario 1: Refer to Figure 3a. Site B is just inside the Service Area boundary and Service Contour must be <5 Miles outside Service Area boundary. Signal level at Service Contour from Site B is 30.1 dBμ. Signal level for Site A can be up to 40 dBμ, since when summing two signals with >10 dB delta, the lower signal level has little effect (less than 0.4 dB in this case). Therefore, Site A can be 10 miles from the Service Contour, or 5 miles inside the Service Area

boundary. The coverage performance for this scenario is shown in Table 2, above, for 20 dB building loss typical of urban areas.

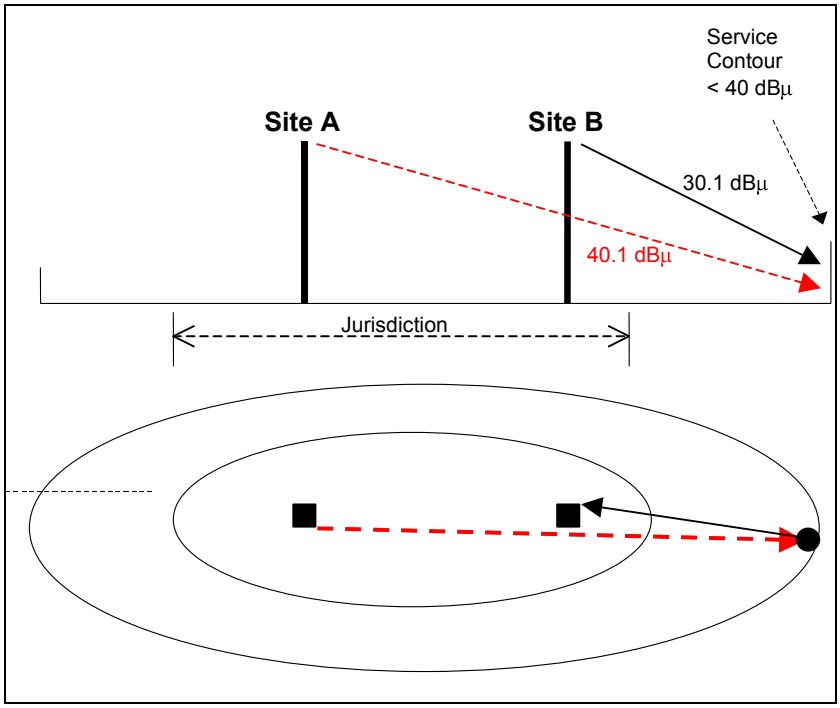


Figure 3a. Scenario 1 on of Use of Table 5

Scenario 2: Refer to bold data in Table 5. Site B is just inside the Service Area boundary and Service Contour must be <4 Miles outside Service Area boundary. Signal level at Service Contour from Site B is 33.5 dBμ. Signal level for Site A can be up to 38.4 dBμ. (See Attachment B for simple method to sum the powers of signals expressed in decibels.) The composite power level is 39.7 dBμ. Therefore, Site A can be slightly less than 11 miles from the Service Contour, or ~7 miles inside the Service Area boundary. The coverage performance for this example is shown in Table 3, above, for 15 dB building loss typical of suburban areas.

Scenario 3: Site B is just inside the Service Area boundary and Service Contour must be <3 Miles outside Service Area boundary. Signal level at Service Contour from Site B is 37.5 dBμ. Signal level for Site A can be up to 36.4 dBμ. (See Attachment B simple method to sum signals expressed in decibels.) The composite power level is 40.0 dBμ. Therefore, Site A can be ~13 miles from the Service Contour, or ~10 miles inside the Service Area boundary. The coverage performance for this example is shown in Table 4, above, for 10 dB building loss typical of rural areas.

Service Contour Extension Recommendation

The resulting recommendation for extending the 40 dBμ service contour beyond the service area boundary is:

Type of Area	Extension (mi.)
Urban (20 dB Buildings)	5

Suburban (15 dB Buildings)	4
Rural (10 dB Buildings)	3

Table 6 - Recommended Extension Distance Of 40 dB□ Field Strength

Using this recommendation, the 40 dBµ service contour can then be constructed based on the defined service area without having to perform an actual prediction.

Interfering Contour

Table 1 shows that 36.4 dB of margin is required to provide 10 dB of co-channel capture and <1% probability of interference. Since the 40 dBµ service contour is beyond the edge of the service area, some relaxation in the level of interference is reasonable. Therefore, a 35 dB co-channel C/I ratio is recommended and is consistent with what is currently being licensed in the 821-824/866-869 MHz Public Safety band.

Co-Channel Interfering Contour Recommendation

- Allow the constructed 40 dBµ (50,50) service contour to extend beyond the edge of the defined service area by the distance indicated in Table 6.
- Allow the 5 dBµ (50,50) interfering contour to intercept but not overlap the 40 dBµ service contour.

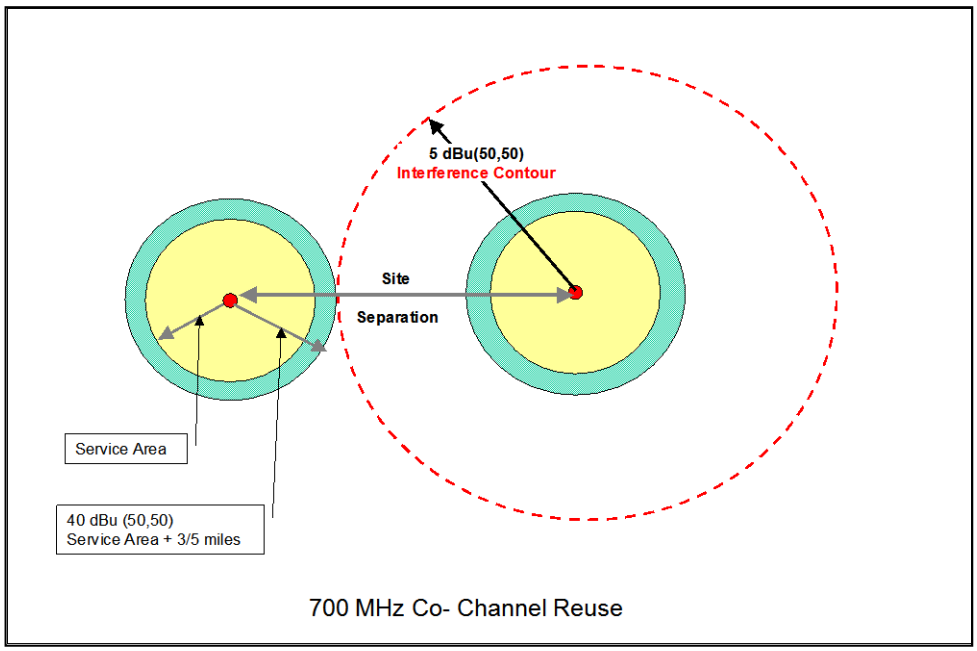


Figure 4 - Co-Channel Reuse Criterion

Adjacent and Alternate Channel Considerations

Adjacent and alternate channels are treated as being noise sources that alter the composite noise

floor of a victim receiver. Using the 47 CFR §90.543 values of ACCP can facilitate the coordination of adjacent and alternate channels. The C/I requirements for <1% interference can be reduced by the value of ACCPR. For example to achieve an X dB C/I for the adjacent channel that is -40 dBc a C/I of [X-40] dB is required. Where the alternate channel ACP value is -60 dBc, then the C/I = [X-60] dB is the goal for assignment(s). There is a compounding of interference energy, as there are numerous sources, i.e. co channel, adjacent channels and alternate channels plus the noise from CMRS OOBE.

There is insufficient information in 47 CFR §90.543 to include the actual receiver performance. Receivers typically have "skirts" that allow energy outside the bandwidth of interest to be received. In addition, the FCC defines ACCP differently than does the TIA. The term used by the FCC is the same as the TIA definition of ACP. The subtle difference is that ACCP defines the energy intercepted by a defined receiver filter (e.g., 6 kHz ENBW). ACP defines the energy in a measured bandwidth that is typically wider than the receiver (e.g., 6.25 kHz channel bandwidth). As a result, the FCC values are optimistic at very close spacing and somewhat pessimistic at wider spacings, as the typical receiver filter is less than the channel bandwidth.

In addition, as channel bandwidth is increased, the total amount of noise intercepted rises compared to the level initially defined in a 6.25 kHz channel band width. However, the effect is diminished at very close spacings as the slope of the noise curve falls off rapidly. At greater spacings, the slope of the noise curve is essentially flat and the receiver's filter limits the noise to a rise in the thermal noise floor.

Digital receivers tend to be less tolerant to interference than analog. Therefore, a 3 dB reduction in the C/(I+N) can reduce a DAQ = 3 to a DAQ = 2, which is threshold to complete muting in digital receivers. Therefore to maintain a DAQ = 3, at least 17 dB of fading margin plus the 26.4 dB margin for keeping the interference below 1% probability is required, for a total margin of 43.4 dB. However, this margin would be at the edge of the service area and the 40 dBµ service contour is allowed to extend past the edge of the service area.

Frequency drift is controlled by the FCC requirement for 0.4-ppm stability when locked. This equates to approximately a 1 dB standard deviation, which is negligible when associated with the recommended initial lognormal standard deviation of 8 dB and can be ignored.

The ANSI/TIA/EIA-102 series (Project 25) standards require that a transceiver receiver have an ACIPR of 60 dB. This implies that an ACCPR ³ 65 dB will exist for a "companion receiver". A companion receiver is one that is designed for the specific modulation. At this time the highest likelihood is that receivers will be deploying the following receiver bandwidths at the following channel bandwidths. Note that these calculations apply only to interference between systems built to Project 25 standards. General Use channels may employ other digital technologies.

Estimated Receiver Parameters	
Channel Bandwidth	Receiver Bandwidth
6.25 kHz	5.5 kHz
12.5 kHz	5.5 or 9 kHz
25 kHz	18.0 kHz

Table 7 - Estimated Receiver Parameters

Based on 47 CFR ¶90.543 and the P25 requirement for an ACCPR ³ 65 dB into a 6.0 kHz channel bandwidth and leaving room for a migration from Phase 1 to Phase 2, allows for making the simplifying assumption that 65 dB ACCPR is available for both adjacent 25 kHz spectrum blocks.

The assumption is that initial spectrum coordination sorts are based on 25 kHz bandwidth channels. This provides the maximum flexibility by using 65 dB ACCPR for all but one possible combination of 6.25 kHz channels within the 25 kHz allotment.

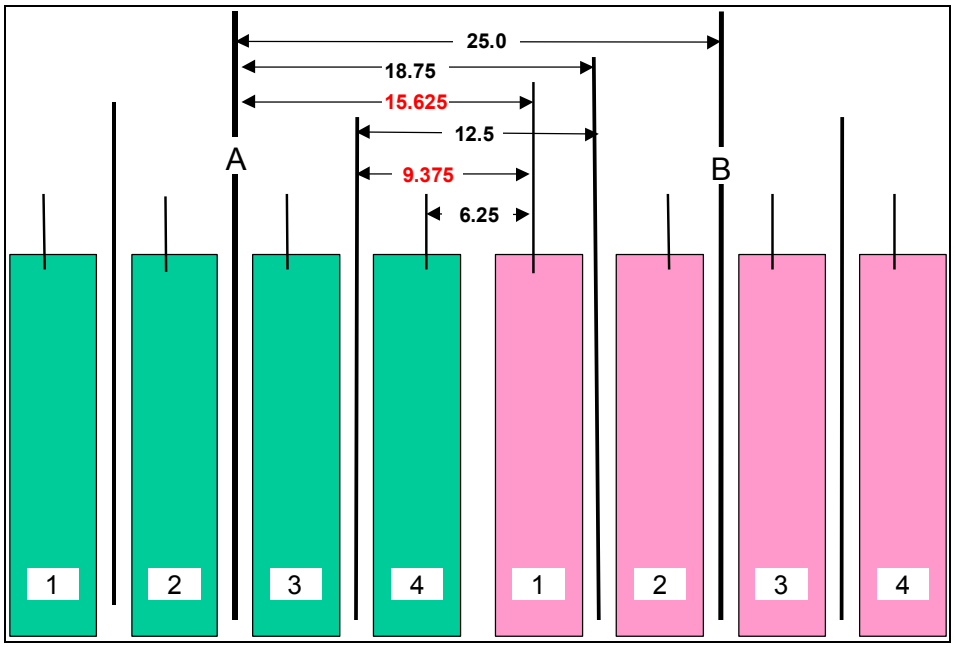


Figure 5, Potential Frequency Separations

Case	Spacing	ACCPR
25 kHz to 25 kHz	25 kHz	65 dB
25 kHz to 12.5 kHz	18.750 kHz	65 dB
25 kHz to 6.25 kHz	15.625 kHz	>40 dB
12.5 kHz to 12.5 kHz	12.5 kHz	65 dB
12.5 kHz to 6.25 kHz	9.375 kHz	>40 dB
6.25 kHz to 6.25 kHz	6.25 kHz	65 dB

Table 8 - ACCPR Values For Potential Frequency Separations

Therefore it is recommended that a consistent value of 65 dB ACCPR be used for the initial coordination of adjacent 25 kHz channel blocks. Rounding to be conservative due to the possibility of multiple sources allows the Adjacent Channel Interfering Contour to be approximately 20 dB above the 40 dBμ service contour, at 60 dBμ.

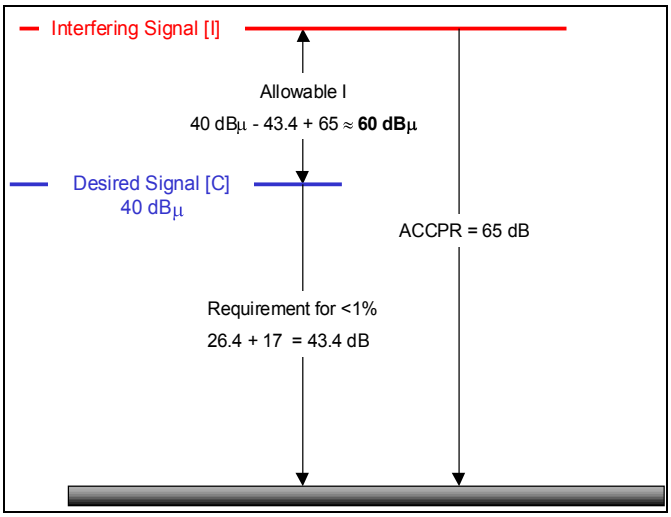


Figure 6 - Adjusted Adjacent 25 kHz Channel Interfering Contour Value

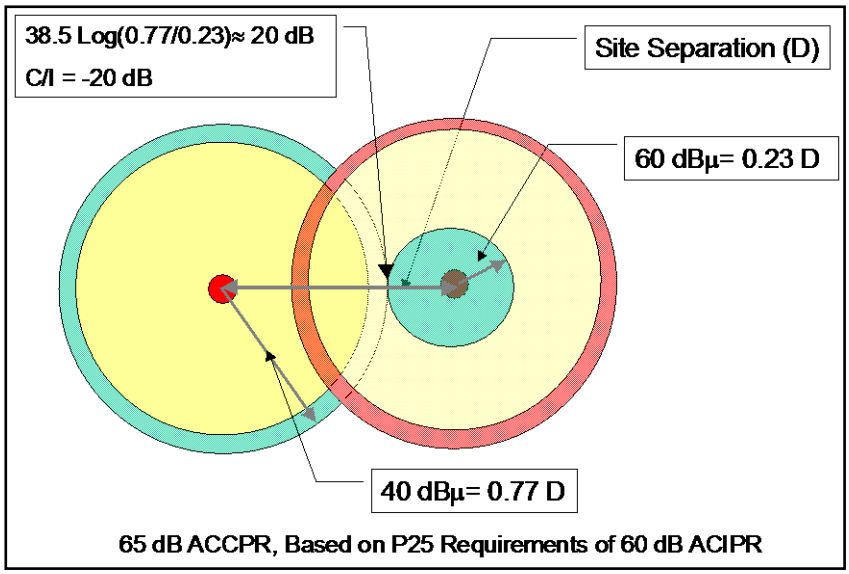


Figure 7 - Example Of Adjacent/Alternate Overlap Criterion

Adjacent Channel Interfering Contour Recommendation

An adjacent (25 kHz) channel shall be allowed to have its 60 dBμ (50,50) interfering contour touch but not overlap the 40 dB? (50,50) service contour of a system being evaluated. Evaluations should be made in both directions.

Final Detailed Coordination

This simple method is only adequate for presorting large blocks of spectrum to potential entities. A more detailed analysis should be executed in the actual design phase to take all the issues into consideration.

Additional factors that should be considered include:

- Degree of Service Area Overlap
- Different size of Service Areas
- Different ERPs and HAATs
- Actual Terrain and Land Usage
- Differing User Reliability Requirements
- Migration from Project 25 Phase 1 to Phase 2
- Actual ACCP
- Balanced Systems
- Mobiles vs. Portables
- Use of voting
- Use of simulcast
- Radio specifications
- Simplex Operation
- Future unidentified requirements

Special attention needs to be paid to the use of simplex operation. In this case, an interferer can be on an offset adjacent channel and in extremely close proximity to the victim receiver. This is especially critical in public safety where simplex operations are frequently used at a fire scene or during police operation. This type operation is also quite common in the lower frequency bands. In those cases, evaluation of base-to-base as well as mobile-to-mobile interference should be considered and evaluated.

Attachment A

Carrier to Interference Requirements

There are two different ways that Interference is considered.

· Co Channel
· Adjacent and Alternate Channels

Both involve using a C/I ratio. The C/I ratio requires a probability be assigned. For example, if 10% Interference is specified, the C/I implies 90% probability of successfully achieving the desired ratio. 1% interference means that there is a 99% probability of achieving the desired C/I.

$$\frac{C}{I}\% = \frac{1}{2} \bullet erfc\left(\frac{\frac{\mathrm{C}}{\mathrm{I}}\mathrm{margin}}{2\sigma}\right) \tag{1}$$

This can also be written in a form using the standard deviate unit (*Z*). In this case the *Z* for the desired probability of achieving the C/I is entered. For example, for a 90% probability of achieving the necessary C/I, *Z* = 1.28.

$$\frac{C}{I}\% = Z \cdot \sqrt{2} \cdot \sigma \tag{2}$$

The most common requirements for several typical lognormal standard deviations (□) are included in the following table based on Equation (2).

Location Standard Deviation (□) dB	5.6	6.5	8	10
Probability %				
10%	10.14 dB	11.77 dB	14.48 dB	18.10 dB
5%	13.07 dB	15.17 dB	18.67 dB	23.33 dB
4%	13.86 dB	16.09 dB	19.81 dB	24.76 dB
3%	14.90 dB	17.29 dB	21.28 dB	26.20 dB
2%	16.27 dB	18.88 dB	23.24 dB	29.04 dB
1%	18.45 dB	21.42 dB	**26.36 dB**	32.95 dB

Table A1 - Probability Of Not Achieving C/I For Various Location Lognormal Standard Deviations

These various relationships are shown in Figure A1, a continuous plot of equation(s) 1 and 2.

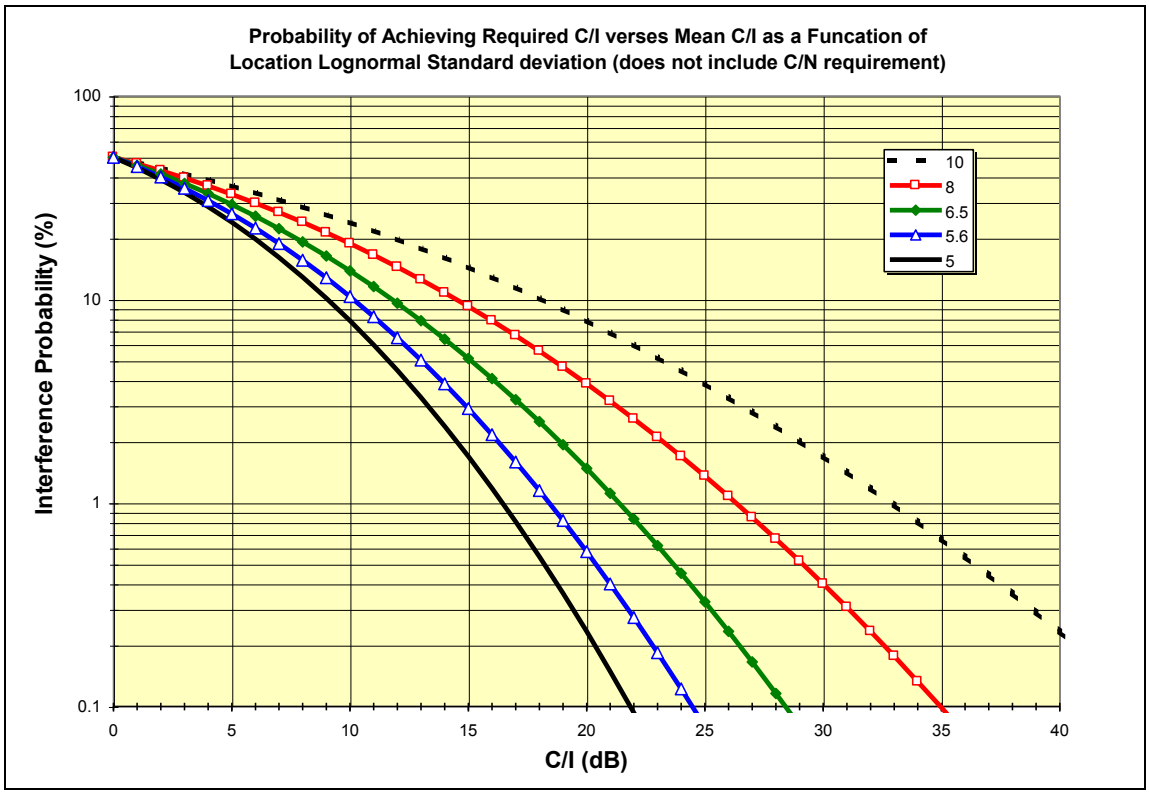


Figure A1, Probability Of Achieving Required C/I As A Function Of Location Standard Deviation

For co-channel the margin needs to include the "capture" requirement. When this is done, then a 1% probability of co channel interference can be rephrased to mean, there is a 99% probability that the "capture ratio" will be achieved. The capture ratio varies with the type of modulation. Older analog equipment has a capture ratio of approximately 7 dB. Project 25 FDMA is specified at 9 dB. Figure A1 shows the C/I requirement without including the capture requirement.

The 8 dB value for lognormal location standard deviation is reasonable when little information is available. Later when a detailed design is required, additional details and high-resolution terrain and land usage databases will allow a lower value to be used. The TIA recommended value is

5.6 dB. Using 8 dB initially and changing to 5.6 dB provides additional flexibility necessary to complete the final system design.

To determine the desired probability that both the C/N and C/I will be achieved requires that a joint probability be determined. Figure A2 shows the effects of a family of various levels of C/N reliability and the joint probability (Y-axis) in the presence of various probabilities of Interference. Note that at 99% reliability with 1% interference (X-axis) that the reduction is nearly the difference. This is because the very high noise reliability is degraded by the interference, as there is little probability that the noise criterion will not be satisfied. At 90%, the 1% interference has a greater likelihood that it will occur simultaneously when the noise criterion not being met, resulting in less degradation of the 90%.

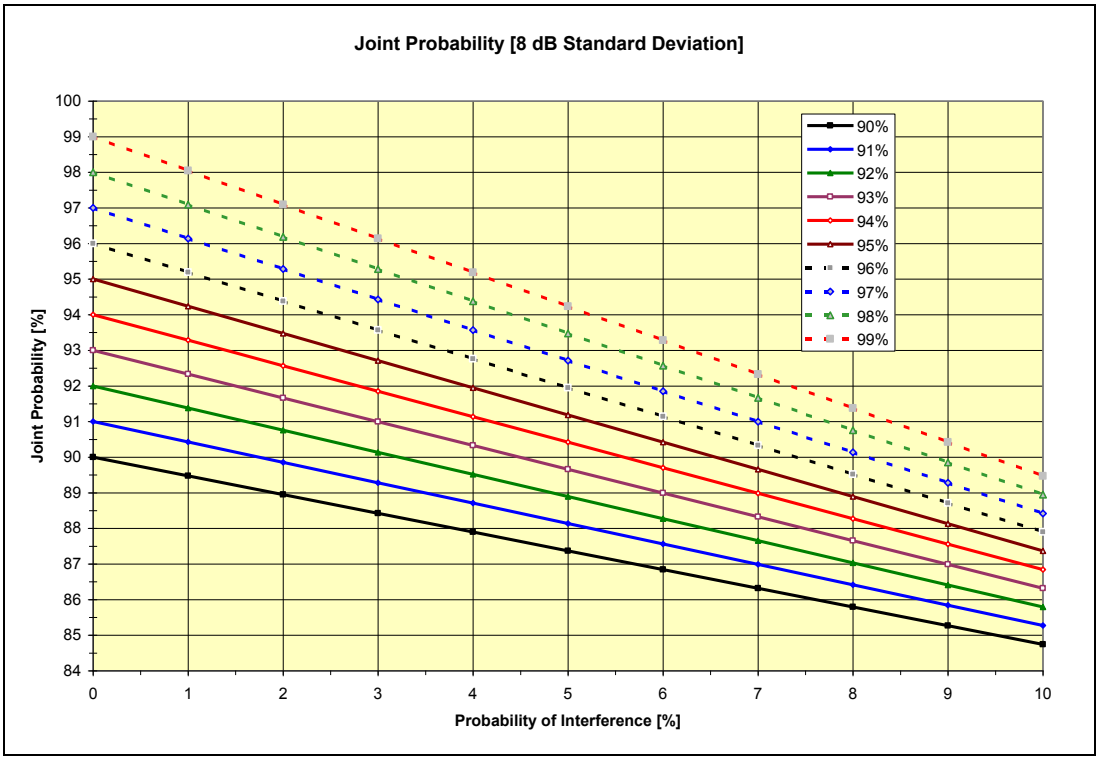
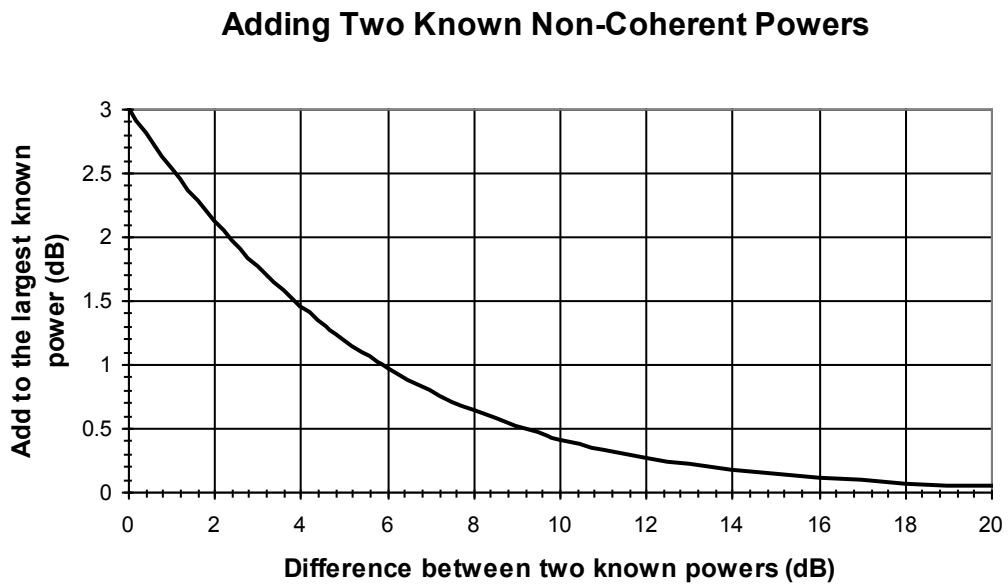


Figure A2 - Effect Of Joint Probability On The Composite Probability

For adjacent and alternate channels, the channel performance requirement must be added to the C/I ratio. When this is applied, then a 1% probability of adjacent/alternate channel interference can be rephrased to mean, there is a 99% probability that the “channel performance ratio” will be achieved.

Attachment B



In order to sum the power of two or more signals expressed in dBm or dBµ, the level should be converted to a voltage level or a power level, summed (root of the sum of the squares), and then converted back to dBm or dBµ.

The chart above provides simple method to sum two power levels expressed in dBm or dBµ. First find the difference between the two signals on the horizontal axis. Go up to the curve and across to the vertical axis to find the power delta. Add the power delta to the larger of the two original signal levels.

Example 1: Signal A is 36.4 dBµ. Signal B is 37.5 dBµ. Difference is 1.1 dB. Power delta is about 2.5 dB. Composite signal level is 37.5 dBµ + 2.5 dB = 40 dBµ.

Example 2: Signal is –96.3 dBm. Signal B is –95.2 dBm. Difference is 1.1 dB. Power delta is about 2.5 dB. Composite signal level is –95.2 dBm + 2.5 dB = -92.7 dBm.

Region 50: 700 MHz Appendix F: Channel Allotment Reports

The Region 50 Channel allocations have been established by the CAPRAD packing program. Region 50 anticipates an open filing window where applicants can apply for available channels in their county area. A "County Area" is defined as an area consisting of the area within the county as well as a distance of up to 10 miles outside of the county. It is anticipated this extended county area will enable Region 50 to maximize channel re-use of any "orphan" remainders.

Region 50 - Texas - El Paso
Allotments by FCC Channel

FCC Channel	Bandwidth	Mobile Frequency	Base Frequency	County
13-14	12.50 KHz	799.081250 MHz	769.081250 MHz	Borden Brown Haskell Reeves Tom Green
15-16	12.50 KHz	799.093750 MHz	769.093750 MHz	Borden Brown Haskell Reeves Tom Green
17-18	12.50 KHz	799.106250 MHz	769.106250 MHz	Brewster Hudspeth Mason Midland Nolan
19-20	12.50 KHz	799.118750 MHz	769.118750 MHz	Brewster Hudspeth Mason Midland Nolan
25-26	12.50 KHz	799.156250 MHz	769.156250 MHz	Borden Brown El Paso Haskell Presidio Tom Green Winkler
27-28	12.50 KHz	799.168750 MHz	769.168750 MHz	Borden Brown El Paso Haskell Presidio Tom Green Winkler
29-30	12.50 KHz	799.181250 MHz	769.181250 MHz	Fisher Upton
31-32	12.50 KHz	799.193750 MHz	769.193750 MHz	Fisher Upton
33-34	12.50 KHz	799.206250 MHz	769.206250 MHz	Brewster Howard Hudspeth Kimble Knox Runnels Stephens Ward
35-36	12.50 KHz	799.218750 MHz	769.218750 MHz	Brewster Howard Hudspeth Kimble Knox Runnels Stephens Ward
41-42	12.50 KHz	799.256250 MHz	769.256250 MHz	Dawson McCulloch Pecos Sterling

				Taylor
43-44	12.50 KHz	799.268750 MHz	769.268750 MHz	Dawson McCulloch Pecos Sterling Taylor
45-46	12.50 KHz	799.281250 MHz	769.281250 MHz	Ector El Paso
47-48	12.50 KHz	799.293750 MHz	769.293750 MHz	Ector El Paso
49-50	12.50 KHz	799.306250 MHz	769.306250 MHz	Coleman Howard Presidio
51-52	12.50 KHz	799.318750 MHz	769.318750 MHz	Coleman Howard Presidio
53-54	12.50 KHz	799.331250 MHz	769.331250 MHz	Comanche Fisher Tom Green Ward
55-56	12.50 KHz	799.343750 MHz	769.343750 MHz	Comanche Fisher Tom Green Ward
57-58	12.50 KHz	799.356250 MHz	769.356250 MHz	Brewster Callahan Hudspeth Knox Midland Sutton
59-60	12.50 KHz	799.368750 MHz	769.368750 MHz	Brewster Callahan Hudspeth Knox Midland Sutton
65-66	12.50 KHz	799.406250 MHz	769.406250 MHz	El Paso Midland Reeves Sutton Taylor Terrell
67-68	12.50 KHz	799.418750 MHz	769.418750 MHz	El Paso Midland Reeves Sutton Taylor Terrell
69-70	12.50 KHz	799.431250 MHz	769.431250 MHz	Scurry Tom Green Winkler
71-72	12.50 KHz	799.443750 MHz	769.443750 MHz	Scurry Tom Green Winkler
73-74	12.50 KHz	799.456250 MHz	769.456250 MHz	Brown Culberson Jones Martin Pecos

75-76	12.50 KHz	799.468750 MHz	769.468750 MHz	Brown Culberson Jones Martin Pecos
81-82	12.50 KHz	799.506250 MHz	769.506250 MHz	Borden Pecos Schleicher Taylor
83-84	12.50 KHz	799.518750 MHz	769.518750 MHz	Borden Pecos Schleicher Taylor
85-86	12.50 KHz	799.531250 MHz	769.531250 MHz	Andrews Brown El Paso Reagan
87-88	12.50 KHz	799.543750 MHz	769.543750 MHz	Andrews Brown El Paso Reagan
89-90	12.50 KHz	799.556250 MHz	769.556250 MHz	Kimble Reeves Runnels Scurry
91-92	12.50 KHz	799.568750 MHz	769.568750 MHz	Kimble Reeves Runnels Scurry
93-94	12.50 KHz	799.581250 MHz	769.581250 MHz	Ector Irion McCulloch
95-96	12.50 KHz	799.593750 MHz	769.593750 MHz	Ector Irion McCulloch
97-98	12.50 KHz	799.606250 MHz	769.606250 MHz	Brewster Callahan Howard Hudspeth
99-100	12.50 KHz	799.618750 MHz	769.618750 MHz	Brewster Callahan Howard Hudspeth
105-106	12.50 KHz	799.656250 MHz	769.656250 MHz	Brewster Coleman Hudspeth Midland Schleicher
107-108	12.50 KHz	799.668750 MHz	769.668750 MHz	Brewster Coleman Hudspeth Midland Schleicher
109-110	12.50 KHz	799.681250 MHz	769.681250 MHz	Comanche Loving
111-112	12.50 KHz	799.693750 MHz	769.693750 MHz	Comanche Loving
113-114	12.50 KHz	799.706250 MHz	769.706250 MHz	Crane El Paso

				Howard Irion Jeff Davis McCulloch Taylor
115-116	12.50 KHz	799.718750 MHz	769.718750 MHz	Crane El Paso Howard Irion Jeff Davis McCulloch Taylor
121-122	12.50 KHz	799.756250 MHz	769.756250 MHz	Dawson Mason Pecos Shackelford Tom Green
123-124	12.50 KHz	799.768750 MHz	769.768750 MHz	Dawson Mason Pecos Shackelford Tom Green
125-126	12.50 KHz	799.781250 MHz	769.781250 MHz	Brown Midland Nolan
127-128	12.50 KHz	799.793750 MHz	769.793750 MHz	Brown Midland Nolan
129-130	12.50 KHz	799.806250 MHz	769.806250 MHz	Concho El Paso Haskell Reeves Sterling
131-132	12.50 KHz	799.818750 MHz	769.818750 MHz	Concho El Paso Haskell Reeves Sterling
133-134	12.50 KHz	799.831250 MHz	769.831250 MHz	Crockett Taylor
135-136	12.50 KHz	799.843750 MHz	769.843750 MHz	Crockett Taylor
137-138	12.50 KHz	799.856250 MHz	769.856250 MHz	Brewster Ector McCulloch Scurry Stephens
139-140	12.50 KHz	799.868750 MHz	769.868750 MHz	Brewster Ector McCulloch Scurry Stephens
145-146	12.50 KHz	799.906250 MHz	769.906250 MHz	Gaines Glasscock Jones Kimble Pecos
147-148	12.50 KHz	799.918750 MHz	769.918750 MHz	Gaines Glasscock Jones Kimble

				Pecos
149-150	12.50 KHz	799.931250 MHz	769.931250 MHz	Ector Presidio Runnels
151-152	12.50 KHz	799.943750 MHz	769.943750 MHz	Ector Presidio Runnels
153-154	12.50 KHz	799.956250 MHz	769.956250 MHz	Eastland El Paso Haskell Menard Reagan Reeves
155-156	12.50 KHz	799.968750 MHz	769.968750 MHz	Eastland El Paso Haskell Menard Reagan Reeves
161-162	12.50 KHz	800.006250 MHz	770.006250 MHz	Comanche Jones Loving Presidio Reagan
163-164	12.50 KHz	800.018750 MHz	770.018750 MHz	Comanche Jones Loving Presidio Reagan
165-166	12.50 KHz	800.031250 MHz	770.031250 MHz	Gaines Pecos Runnels
167-168	12.50 KHz	800.043750 MHz	770.043750 MHz	Gaines Pecos Runnels
169-170	12.50 KHz	800.056250 MHz	770.056250 MHz	Howard Menard Winkler
171-172	12.50 KHz	800.068750 MHz	770.068750 MHz	Howard Menard Winkler
173-174	12.50 KHz	800.081250 MHz	770.081250 MHz	Crockett El Paso Taylor
175-176	12.50 KHz	800.093750 MHz	770.093750 MHz	Crockett El Paso Taylor
177-178	12.50 KHz	800.106250 MHz	770.106250 MHz	Eastland Ector Jeff Davis Scurry Tom Green
179-180	12.50 KHz	800.118750 MHz	770.118750 MHz	Eastland Ector Jeff Davis Scurry Tom Green
185-186	12.50 KHz	800.156250 MHz	770.156250 MHz	Brewster Comanche

				Fisher Midland
187-188	12.50 KHz	800.168750 MHz	770.168750 MHz	Brewster Comanche Fisher Midland
189-190	12.50 KHz	800.181250 MHz	770.181250 MHz	Crockett Gaines Runnels Stephens
191-192	12.50 KHz	800.193750 MHz	770.193750 MHz	Crockett Gaines Runnels Stephens
193-194	12.50 KHz	800.206250 MHz	770.206250 MHz	Ector El Paso Jeff Davis Jones Menard Sterling
195-196	12.50 KHz	800.218750 MHz	770.218750 MHz	Ector El Paso Jeff Davis Jones Menard Sterling
201-202	12.50 KHz	800.256250 MHz	770.256250 MHz	Brown Jones Midland Presidio Schleicher
203-204	12.50 KHz	800.268750 MHz	770.268750 MHz	Brown Jones Midland Presidio Schleicher
205-206	12.50 KHz	800.281250 MHz	770.281250 MHz	Coke Kent Mason Pecos
207-208	12.50 KHz	800.293750 MHz	770.293750 MHz	Coke Kent Mason Pecos
209-210	12.50 KHz	800.306250 MHz	770.306250 MHz	Callahan Concho Howard Winkler
211-212	12.50 KHz	800.318750 MHz	770.318750 MHz	Callahan Concho Howard Winkler
213-214	12.50 KHz	800.331250 MHz	770.331250 MHz	Brewster Kimble Nolan Reagan
215-216	12.50 KHz	800.343750 MHz	770.343750 MHz	Brewster Kimble Nolan Reagan

217-218	12.50 KHz	800.356250 MHz	770.356250 MHz	Borden Eastland Ector Haskell McCulloch
219-220	12.50 KHz	800.368750 MHz	770.368750 MHz	Borden Eastland Ector Haskell McCulloch
225-226	12.50 KHz	800.406250 MHz	770.406250 MHz	Kimble Midland Presidio Taylor Terrell
227-228	12.50 KHz	800.418750 MHz	770.418750 MHz	Kimble Midland Presidio Taylor Terrell
229-230	12.50 KHz	800.431250 MHz	770.431250 MHz	Tom Green Ward
231-232	12.50 KHz	800.443750 MHz	770.443750 MHz	Tom Green Ward
233-234	12.50 KHz	800.456250 MHz	770.456250 MHz	Brewster Brown Crockett El Paso Martin Nolan
235-236	12.50 KHz	800.468750 MHz	770.468750 MHz	Brewster Brown Crockett El Paso Martin Nolan
241-242	12.50 KHz	800.506250 MHz	770.506250 MHz	Brown Dawson El Paso Irion Reeves Stonewall Terrell
243-244	12.50 KHz	800.518750 MHz	770.518750 MHz	Brown Dawson El Paso Irion Reeves Stonewall Terrell
245-246	12.50 KHz	800.531250 MHz	770.531250 MHz	Crane Sutton Taylor
247-248	12.50 KHz	800.543750 MHz	770.543750 MHz	Crane Sutton Taylor
249-250	12.50 KHz	800.556250 MHz	770.556250 MHz	Culberson Howard
251-252	12.50 KHz	800.568750 MHz	770.568750 MHz	Culberson Howard

253-254	12.50 KHz	800.581250 MHz	770.581250 MHz	Brewster Jones Mason Tom Green Ward
255-256	12.50 KHz	800.593750 MHz	770.593750 MHz	Brewster Jones Mason Tom Green Ward
257-258	12.50 KHz	800.606250 MHz	770.606250 MHz	Eastland Midland Scurry
259-260	12.50 KHz	800.618750 MHz	770.618750 MHz	Eastland Midland Scurry
265-266	12.50 KHz	800.656250 MHz	770.656250 MHz	Howard Loving McCulloch Taylor
267-268	12.50 KHz	800.668750 MHz	770.668750 MHz	Howard Loving McCulloch Taylor
269-270	12.50 KHz	800.681250 MHz	770.681250 MHz	Comanche Crane Kent Presidio Throckmorton Tom Green
271-272	12.50 KHz	800.693750 MHz	770.693750 MHz	Comanche Crane Kent Presidio Throckmorton Tom Green
273-274	12.50 KHz	800.706250 MHz	770.706250 MHz	Andrews Callahan El Paso Kimble Mitchell Reeves
275-276	12.50 KHz	800.718750 MHz	770.718750 MHz	Andrews Callahan El Paso Kimble Mitchell Reeves
281-282	12.50 KHz	800.756250 MHz	770.756250 MHz	El Paso Haskell Irion McCulloch Mitchell Presidio
283-284	12.50 KHz	800.768750 MHz	770.768750 MHz	El Paso Haskell Irion McCulloch Mitchell Presidio
285-286	12.50 KHz	800.781250 MHz	770.781250 MHz	Dawson Pecos

				Sutton Taylor
287-288	12.50 KHz	800.793750 MHz	770.793750 MHz	Dawson Pecos Sutton Taylor
289-290	12.50 KHz	800.806250 MHz	770.806250 MHz	Brown Ector Sterling
291-292	12.50 KHz	800.818750 MHz	770.818750 MHz	Brown Ector Sterling
293-294	12.50 KHz	800.831250 MHz	770.831250 MHz	Crockett Gaines Nolan
295-296	12.50 KHz	800.843750 MHz	770.843750 MHz	Crockett Gaines Nolan
297-298	12.50 KHz	800.856250 MHz	770.856250 MHz	Coleman Jeff Davis Kimble Knox Loving Midland
299-300	12.50 KHz	800.868750 MHz	770.868750 MHz	Coleman Jeff Davis Kimble Knox Loving Midland
305-306	12.50 KHz	800.906250 MHz	770.906250 MHz	Brewster Midland Sutton Taylor
307-308	12.50 KHz	800.918750 MHz	770.918750 MHz	Brewster Midland Sutton Taylor
309-310	12.50 KHz	800.931250 MHz	770.931250 MHz	Borden Brown Haskell Loving Tom Green
311-312	12.50 KHz	800.943750 MHz	770.943750 MHz	Borden Brown Haskell Loving Tom Green
313-314	12.50 KHz	800.956250 MHz	770.956250 MHz	Ector El Paso Mason Nolan Presidio Stephens
315-316	12.50 KHz	800.968750 MHz	770.968750 MHz	Ector El Paso Mason Nolan Presidio Stephens

321-322	12.50 KHz	801.006250 MHz	771.006250 MHz	Andrews El Paso Reeves Stonewall Tom Green
323-324	12.50 KHz	801.018750 MHz	771.018750 MHz	Andrews El Paso Reeves Stonewall Tom Green
325-326	12.50 KHz	801.031250 MHz	771.031250 MHz	Brewster Howard Taylor
327-328	12.50 KHz	801.043750 MHz	771.043750 MHz	Brewster Howard Taylor
329-330	12.50 KHz	801.056250 MHz	771.056250 MHz	Ector Haskell Sutton
331-332	12.50 KHz	801.068750 MHz	771.068750 MHz	Ector Haskell Sutton
333-334	12.50 KHz	801.081250 MHz	771.081250 MHz	Concho Gaines Kent Reagan Stephens
335-336	12.50 KHz	801.093750 MHz	771.093750 MHz	Concho Gaines Kent Reagan Stephens
337-338	12.50 KHz	801.106250 MHz	771.106250 MHz	Nolan Presidio Winkler
339-340	12.50 KHz	801.118750 MHz	771.118750 MHz	Nolan Presidio Winkler
341-342	12.50 KHz	801.131250 MHz	771.131250 MHz	Coleman Glasscock Kimble Knox Pecos
343-344	12.50 KHz	801.143750 MHz	771.143750 MHz	Coleman Glasscock Kimble Knox Pecos
345-346	12.50 KHz	801.156250 MHz	771.156250 MHz	Scurry
347-348	12.50 KHz	801.168750 MHz	771.168750 MHz	Scurry
349-350	12.50 KHz	801.181250 MHz	771.181250 MHz	Crane Culberson Eastland Schleicher
351-352	12.50 KHz	801.193750 MHz	771.193750 MHz	Crane Culberson Eastland Schleicher

353-354	12.50 KHz	801.206250 MHz	771.206250 MHz	Dawson Jones McCulloch Sterling Terrell
355-356	12.50 KHz	801.218750 MHz	771.218750 MHz	Dawson Jones McCulloch Sterling Terrell
357-358	12.50 KHz	801.231250 MHz	771.231250 MHz	Jeff Davis Midland Runnels
359-360	12.50 KHz	801.243750 MHz	771.243750 MHz	Jeff Davis Midland Runnels
361-362	12.50 KHz	801.256250 MHz	771.256250 MHz	Brown El Paso Irion Mitchell Ward
363-364	12.50 KHz	801.268750 MHz	771.268750 MHz	Brown El Paso Irion Mitchell Ward
365-366	12.50 KHz	801.281250 MHz	771.281250 MHz	Andrews Brewster Menard Stonewall
367-368	12.50 KHz	801.293750 MHz	771.293750 MHz	Andrews Brewster Menard Stonewall
369-370	12.50 KHz	801.306250 MHz	771.306250 MHz	Crockett Howard Hudspeth Loving Taylor
371-372	12.50 KHz	801.318750 MHz	771.318750 MHz	Crockett Howard Hudspeth Loving Taylor
373-374	12.50 KHz	801.331250 MHz	771.331250 MHz	Ector Stephens Tom Green
375-376	12.50 KHz	801.343750 MHz	771.343750 MHz	Ector Stephens Tom Green
377-378	12.50 KHz	801.356250 MHz	771.356250 MHz	Nolan Presidio Sutton
379-380	12.50 KHz	801.368750 MHz	771.368750 MHz	Nolan Presidio Sutton
381-382	12.50 KHz	801.381250 MHz	771.381250 MHz	Callahan Concho Gaines Glasscock

				Knox Pecos
383-384	12.50 KHz	801.393750 MHz	771.393750 MHz	Callahan Concho Gaines Glasscock Knox Pecos
385-386	12.50 KHz	801.406250 MHz	771.406250 MHz	Coke Comanche Kent Kimble Winkler
387-388	12.50 KHz	801.418750 MHz	771.418750 MHz	Coke Comanche Kent Kimble Winkler
389-390	12.50 KHz	801.431250 MHz	771.431250 MHz	Reagan Reeves Shackelford
391-392	12.50 KHz	801.443750 MHz	771.443750 MHz	Reagan Reeves Shackelford
393-394	12.50 KHz	801.456250 MHz	771.456250 MHz	Dawson Fisher McCulloch
395-396	12.50 KHz	801.468750 MHz	771.468750 MHz	Dawson Fisher McCulloch
397-398	12.50 KHz	801.481250 MHz	771.481250 MHz	Culberson Midland Runnels Throckmorton
399-400	12.50 KHz	801.493750 MHz	771.493750 MHz	Culberson Midland Runnels Throckmorton
401-402	12.50 KHz	801.506250 MHz	771.506250 MHz	Eastland El Paso Schleicher Ward
403-404	12.50 KHz	801.518750 MHz	771.518750 MHz	Eastland El Paso Schleicher Ward
405-406	12.50 KHz	801.531250 MHz	771.531250 MHz	Andrews Sterling
407-408	12.50 KHz	801.543750 MHz	771.543750 MHz	Andrews Sterling
409-410	12.50 KHz	801.556250 MHz	771.556250 MHz	Brown Hudspeth Jones Loving Menard Upton
411-412	12.50 KHz	801.568750 MHz	771.568750 MHz	Brown Hudspeth Jones

				Loving Menard Upton
413-414	12.50 KHz	801.581250 MHz	771.581250 MHz	Brewster Scurry
415-416	12.50 KHz	801.593750 MHz	771.593750 MHz	Brewster Scurry
417-418	12.50 KHz	801.606250 MHz	771.606250 MHz	Crane Stephens Stonewall Tom Green
419-420	12.50 KHz	801.618750 MHz	771.618750 MHz	Crane Stephens Stonewall Tom Green
421-422	12.50 KHz	801.631250 MHz	771.631250 MHz	Howard Presidio Sutton Taylor Terrell
423-424	12.50 KHz	801.643750 MHz	771.643750 MHz	Howard Presidio Sutton Taylor Terrell
425-426	12.50 KHz	801.656250 MHz	771.656250 MHz	Comanche Concho Ector Kent
427-428	12.50 KHz	801.668750 MHz	771.668750 MHz	Comanche Concho Ector Kent
429-430	12.50 KHz	801.681250 MHz	771.681250 MHz	Callahan Crockett Mitchell Reeves
431-432	12.50 KHz	801.693750 MHz	771.693750 MHz	Callahan Crockett Mitchell Reeves
433-434	12.50 KHz	801.706250 MHz	771.706250 MHz	Gaines Knox McCulloch
435-436	12.50 KHz	801.718750 MHz	771.718750 MHz	Gaines Knox McCulloch
437-438	12.50 KHz	801.731250 MHz	771.731250 MHz	Midland Nolan
439-440	12.50 KHz	801.743750 MHz	771.743750 MHz	Midland Nolan
441-442	12.50 KHz	801.756250 MHz	771.756250 MHz	Culberson Haskell Kimble Pecos
443-444	12.50 KHz	801.768750 MHz	771.768750 MHz	Culberson Haskell Kimble

				Pecos
445-446	12.50 KHz	801.781250 MHz	771.781250 MHz	Andrews Coleman Fisher
447-448	12.50 KHz	801.793750 MHz	771.793750 MHz	Andrews Coleman Fisher
449-450	12.50 KHz	801.806250 MHz	771.806250 MHz	Schleicher Shackelford Ward
451-452	12.50 KHz	801.818750 MHz	771.818750 MHz	Schleicher Shackelford Ward
453-454	12.50 KHz	801.831250 MHz	771.831250 MHz	Dawson Hudspeth Runnels Upton
455-456	12.50 KHz	801.843750 MHz	771.843750 MHz	Dawson Hudspeth Runnels Upton
457-458	12.50 KHz	801.856250 MHz	771.856250 MHz	Irion Stephens
459-460	12.50 KHz	801.868750 MHz	771.868750 MHz	Irion Stephens
461-462	12.50 KHz	801.881250 MHz	771.881250 MHz	Crane Howard Sutton Taylor
463-464	12.50 KHz	801.893750 MHz	771.893750 MHz	Crane Howard Sutton Taylor
465-466	12.50 KHz	801.906250 MHz	771.906250 MHz	Brewster Brown Reagan
467-468	12.50 KHz	801.918750 MHz	771.918750 MHz	Brewster Brown Reagan
469-470	12.50 KHz	801.931250 MHz	771.931250 MHz	Borden Ector El Paso Jones Mason
471-472	12.50 KHz	801.943750 MHz	771.943750 MHz	Borden Ector El Paso Jones Mason
473-474	12.50 KHz	801.956250 MHz	771.956250 MHz	Gaines Knox Reeves Tom Green
475-476	12.50 KHz	801.968750 MHz	771.968750 MHz	Gaines Knox Reeves Tom Green

477-478	12.50 KHz	801.981250 MHz	771.981250 MHz	Eastland McCulloch Midland Presidio Terrell
479-480	12.50 KHz	801.993750 MHz	771.993750 MHz	Eastland McCulloch Midland Presidio Terrell
481-482	12.50 KHz	802.006250 MHz	772.006250 MHz	Mitchell
483-484	12.50 KHz	802.018750 MHz	772.018750 MHz	Mitchell
485-486	12.50 KHz	802.031250 MHz	772.031250 MHz	Andrews Coleman Culberson
487-488	12.50 KHz	802.043750 MHz	772.043750 MHz	Andrews Coleman Culberson
489-490	12.50 KHz	802.056250 MHz	772.056250 MHz	Menard Sterling Stonewall
491-492	12.50 KHz	802.068750 MHz	772.068750 MHz	Menard Sterling Stonewall
493-494	12.50 KHz	802.081250 MHz	772.081250 MHz	Hudspeth Loving Runnels Upton
495-496	12.50 KHz	802.093750 MHz	772.093750 MHz	Hudspeth Loving Runnels Upton
497-498	12.50 KHz	802.106250 MHz	772.106250 MHz	Martin
499-500	12.50 KHz	802.118750 MHz	772.118750 MHz	Martin
501-502	12.50 KHz	802.131250 MHz	772.131250 MHz	Callahan Crockett Jeff Davis Scurry
503-504	12.50 KHz	802.143750 MHz	772.143750 MHz	Callahan Crockett Jeff Davis Scurry
505-506	12.50 KHz	802.156250 MHz	772.156250 MHz	Coke Haskell
507-508	12.50 KHz	802.168750 MHz	772.168750 MHz	Coke Haskell
509-510	12.50 KHz	802.181250 MHz	772.181250 MHz	Glasscock Pecos Schleicher
511-512	12.50 KHz	802.193750 MHz	772.193750 MHz	Glasscock Pecos Schleicher
513-514	12.50 KHz	802.206250 MHz	772.206250 MHz	Dawson Throckmorton Winkler

515-516	12.50 KHz	802.218750 MHz	772.218750 MHz	Dawson Throckmorton Winkler
517-518	12.50 KHz	802.231250 MHz	772.231250 MHz	Kent Kimble Midland Presidio Taylor Terrell
519-520	12.50 KHz	802.243750 MHz	772.243750 MHz	Kent Kimble Midland Presidio Taylor Terrell
521-522	12.50 KHz	802.256250 MHz	772.256250 MHz	Concho Mitchell Ward
523-524	12.50 KHz	802.268750 MHz	772.268750 MHz	Concho Mitchell Ward
525-526	12.50 KHz	802.281250 MHz	772.281250 MHz	Andrews Brewster Culberson Irion Mason Shackelford
527-528	12.50 KHz	802.293750 MHz	772.293750 MHz	Andrews Brewster Culberson Irion Mason Shackelford
529-530	12.50 KHz	802.306250 MHz	772.306250 MHz	Coleman Crane Howard
531-532	12.50 KHz	802.318750 MHz	772.318750 MHz	Coleman Crane Howard
533-534	12.50 KHz	802.331250 MHz	772.331250 MHz	Menard Nolan Reagan Reeves Stephens
535-536	12.50 KHz	802.343750 MHz	772.343750 MHz	Menard Nolan Reagan Reeves Stephens
537-538	12.50 KHz	802.356250 MHz	772.356250 MHz	Martin Stonewall
539-540	12.50 KHz	802.368750 MHz	772.368750 MHz	Martin Stonewall
541-542	12.50 KHz	802.381250 MHz	772.381250 MHz	Callahan Crockett McCulloch Scurry
543-544	12.50 KHz	802.393750 MHz	772.393750 MHz	Callahan Crockett McCulloch

				Scurry
545-546	12.50 KHz	802.406250 MHz	772.406250 MHz	El Paso Gaines Jeff Davis Tom Green
547-548	12.50 KHz	802.418750 MHz	772.418750 MHz	El Paso Gaines Jeff Davis Tom Green
549-550	12.50 KHz	802.431250 MHz	772.431250 MHz	Borden Brown Ector Jones
551-552	12.50 KHz	802.443750 MHz	772.443750 MHz	Borden Brown Ector Jones
553-554	12.50 KHz	802.456250 MHz	772.456250 MHz	Glasscock Pecos
555-556	12.50 KHz	802.468750 MHz	772.468750 MHz	Glasscock Pecos
557-558	12.50 KHz	802.481250 MHz	772.481250 MHz	Kimble Knox Presidio Taylor
559-560	12.50 KHz	802.493750 MHz	772.493750 MHz	Kimble Knox Presidio Taylor
561-562	12.50 KHz	802.506250 MHz	772.506250 MHz	Comanche Dawson Loving Upton
563-564	12.50 KHz	802.518750 MHz	772.518750 MHz	Comanche Dawson Loving Upton
565-566	12.50 KHz	802.531250 MHz	772.531250 MHz	Brewster Coke Shackelford
567-568	12.50 KHz	802.543750 MHz	772.543750 MHz	Brewster Coke Shackelford
569-570	12.50 KHz	802.556250 MHz	772.556250 MHz	Concho Crane Culberson Howard
571-572	12.50 KHz	802.568750 MHz	772.568750 MHz	Concho Crane Culberson Howard
573-574	12.50 KHz	802.581250 MHz	772.581250 MHz	Mason Nolan Stephens
575-576	12.50 KHz	802.593750 MHz	772.593750 MHz	Mason Nolan Stephens

577-578	12.50 KHz	802.606250 MHz	772.606250 MHz	Coleman Midland Reeves Schleicher Stonewall Terrell
579-580	12.50 KHz	802.618750 MHz	772.618750 MHz	Coleman Midland Reeves Schleicher Stonewall Terrell
581-582	12.50 KHz	802.631250 MHz	772.631250 MHz	Mitchell Winkler
583-584	12.50 KHz	802.643750 MHz	772.643750 MHz	Mitchell Winkler
585-586	12.50 KHz	802.656250 MHz	772.656250 MHz	Callahan El Paso Jeff Davis Martin
587-588	12.50 KHz	802.668750 MHz	772.668750 MHz	Callahan El Paso Jeff Davis Martin
589-590	12.50 KHz	802.681250 MHz	772.681250 MHz	Kent Reagan Ward
591-592	12.50 KHz	802.693750 MHz	772.693750 MHz	Kent Reagan Ward
593-594	12.50 KHz	802.706250 MHz	772.706250 MHz	Andrews Brown Haskell Sutton
595-596	12.50 KHz	802.718750 MHz	772.718750 MHz	Andrews Brown Haskell Sutton
597-598	12.50 KHz	802.731250 MHz	772.731250 MHz	Presidio Scurry Tom Green
599-600	12.50 KHz	802.743750 MHz	772.743750 MHz	Presidio Scurry Tom Green
601-602	12.50 KHz	802.756250 MHz	772.756250 MHz	Eastland Ector
603-604	12.50 KHz	802.768750 MHz	772.768750 MHz	Eastland Ector
605-606	12.50 KHz	802.781250 MHz	772.781250 MHz	Fisher McCulloch Pecos
607-608	12.50 KHz	802.793750 MHz	772.793750 MHz	Fisher McCulloch Pecos
609-610	12.50 KHz	802.806250 MHz	772.806250 MHz	Comanche Knox Sterling

611-612	12.50 KHz	802.818750 MHz	772.818750 MHz	Comanche Knox Sterling
613-614	12.50 KHz	802.831250 MHz	772.831250 MHz	Gaines Hudspeth Loving Nolan Stephens Upton
615-616	12.50 KHz	802.843750 MHz	772.843750 MHz	Gaines Hudspeth Loving Nolan Stephens Upton
617-618	12.50 KHz	802.856250 MHz	772.856250 MHz	Coleman Irion
619-620	12.50 KHz	802.868750 MHz	772.868750 MHz	Coleman Irion
621-622	12.50 KHz	802.881250 MHz	772.881250 MHz	Culberson Howard Jones
623-624	12.50 KHz	802.893750 MHz	772.893750 MHz	Culberson Howard Jones
625-626	12.50 KHz	802.906250 MHz	772.906250 MHz	Brewster Crockett Winkler
627-628	12.50 KHz	802.918750 MHz	772.918750 MHz	Brewster Crockett Winkler
629-630	12.50 KHz	802.931250 MHz	772.931250 MHz	El Paso Menard Midland Reeves Taylor
631-632	12.50 KHz	802.943750 MHz	772.943750 MHz	El Paso Menard Midland Reeves Taylor
633-634	12.50 KHz	802.956250 MHz	772.956250 MHz	Brown Mitchell
635-636	12.50 KHz	802.968750 MHz	772.968750 MHz	Brown Mitchell
637-638	12.50 KHz	802.981250 MHz	772.981250 MHz	Haskell Kimble Martin Presidio Runnels Terrell Ward
639-640	12.50 KHz	802.993750 MHz	772.993750 MHz	Haskell Kimble Martin Presidio Runnels Terrell Ward

645-646	12.50 KHz	803.031250 MHz	773.031250 MHz	El Paso Howard Presidio Taylor Winkler
647-648	12.50 KHz	803.043750 MHz	773.043750 MHz	El Paso Howard Presidio Taylor Winkler
649-650	12.50 KHz	803.056250 MHz	773.056250 MHz	Gaines Haskell Pecos Tom Green
651-652	12.50 KHz	803.068750 MHz	773.068750 MHz	Gaines Haskell Pecos Tom Green
653-654	12.50 KHz	803.081250 MHz	773.081250 MHz	Callahan Ector Mitchell Sutton
655-656	12.50 KHz	803.093750 MHz	773.093750 MHz	Callahan Ector Mitchell Sutton
661-662	12.50 KHz	803.131250 MHz	773.131250 MHz	Pecos Scurry Tom Green
663-664	12.50 KHz	803.143750 MHz	773.143750 MHz	Pecos Scurry Tom Green
665-666	12.50 KHz	803.156250 MHz	773.156250 MHz	Eastland Gaines
667-668	12.50 KHz	803.168750 MHz	773.168750 MHz	Eastland Gaines
669-670	12.50 KHz	803.181250 MHz	773.181250 MHz	Crockett Howard Knox Reeves Taylor
671-672	12.50 KHz	803.193750 MHz	773.193750 MHz	Crockett Howard Knox Reeves Taylor
673-674	12.50 KHz	803.206250 MHz	773.206250 MHz	Brewster Concho Ector Stephens
675-676	12.50 KHz	803.218750 MHz	773.218750 MHz	Brewster Concho Ector Stephens
677-678	12.50 KHz	803.231250 MHz	773.231250 MHz	Brown Glasscock Jones Loving
679-680	12.50 KHz	803.243750 MHz	773.243750 MHz	Brown

				Glasscock Jones Loving
685-686	12.50 KHz	803.281250 MHz	773.281250 MHz	El Paso McCulloch Midland Presidio Taylor
687-688	12.50 KHz	803.293750 MHz	773.293750 MHz	El Paso McCulloch Midland Presidio Taylor
689-690	12.50 KHz	803.306250 MHz	773.306250 MHz	Pecos Scurry Tom Green
691-692	12.50 KHz	803.318750 MHz	773.318750 MHz	Pecos Scurry Tom Green
693-694	12.50 KHz	803.331250 MHz	773.331250 MHz	Brown Ector Jones Sutton
695-696	12.50 KHz	803.343750 MHz	773.343750 MHz	Brown Ector Jones Sutton
701-702	12.50 KHz	803.381250 MHz	773.381250 MHz	El Paso Scurry Terrell Tom Green
703-704	12.50 KHz	803.393750 MHz	773.393750 MHz	El Paso Scurry Terrell Tom Green
705-706	12.50 KHz	803.406250 MHz	773.406250 MHz	Midland Presidio Throckmorton
707-708	12.50 KHz	803.418750 MHz	773.418750 MHz	Midland Presidio Throckmorton
709-710	12.50 KHz	803.431250 MHz	773.431250 MHz	Pecos Sterling Sutton Taylor
711-712	12.50 KHz	803.443750 MHz	773.443750 MHz	Pecos Sterling Sutton Taylor
713-714	12.50 KHz	803.456250 MHz	773.456250 MHz	Concho Ector Kent Stephens
715-716	12.50 KHz	803.468750 MHz	773.468750 MHz	Concho Ector Kent Stephens
717-718	12.50 KHz	803.481250 MHz	773.481250 MHz	Brown Howard

				Irion Jeff Davis Jones Loving
719-720	12.50 KHz	803.493750 MHz	773.493750 MHz	Brown Howard Irion Jeff Davis Jones Loving
725-726	12.50 KHz	803.531250 MHz	773.531250 MHz	El Paso Jeff Davis Menard Taylor Upton
727-728	12.50 KHz	803.543750 MHz	773.543750 MHz	El Paso Jeff Davis Menard Taylor Upton
729-730	12.50 KHz	803.556250 MHz	773.556250 MHz	Dawson Irion Knox Ward
731-732	12.50 KHz	803.568750 MHz	773.568750 MHz	Dawson Irion Knox Ward
733-734	12.50 KHz	803.581250 MHz	773.581250 MHz	Brewster Coke Kent Mason Midland Shackelford
735-736	12.50 KHz	803.593750 MHz	773.593750 MHz	Brewster Coke Kent Mason Midland Shackelford
741-742	12.50 KHz	803.631250 MHz	773.631250 MHz	Andrews Eastland El Paso Haskell Tom Green
743-744	12.50 KHz	803.643750 MHz	773.643750 MHz	Andrews Eastland El Paso Haskell Tom Green
745-746	12.50 KHz	803.656250 MHz	773.656250 MHz	McCulloch Nolan Presidio Terrell Ward
747-748	12.50 KHz	803.668750 MHz	773.668750 MHz	McCulloch Nolan Presidio Terrell Ward
749-750	12.50 KHz	803.681250 MHz	773.681250 MHz	Kimble Knox

				Reagan
751-752	12.50 KHz	803.693750 MHz	773.693750 MHz	Kimble Knox Reagan
753-754	12.50 KHz	803.706250 MHz	773.706250 MHz	Brewster Gaines Taylor
755-756	12.50 KHz	803.718750 MHz	773.718750 MHz	Brewster Gaines Taylor
757-758	12.50 KHz	803.731250 MHz	773.731250 MHz	Culberson Ector Irion Mason Mitchell
759-760	12.50 KHz	803.743750 MHz	773.743750 MHz	Culberson Ector Irion Mason Mitchell
765-766	12.50 KHz	803.781250 MHz	773.781250 MHz	Andrews Eastland El Paso Nolan Reagan Reeves
767-768	12.50 KHz	803.793750 MHz	773.793750 MHz	Andrews Eastland El Paso Nolan Reagan Reeves
769-770	12.50 KHz	803.806250 MHz	773.806250 MHz	Concho Haskell Howard
771-772	12.50 KHz	803.818750 MHz	773.818750 MHz	Concho Haskell Howard
773-774	12.50 KHz	803.831250 MHz	773.831250 MHz	Brown Coke Ector Jeff Davis Sutton Terrell
775-776	12.50 KHz	803.843750 MHz	773.843750 MHz	Brown Coke Ector Jeff Davis Sutton Terrell
781-782	12.50 KHz	803.881250 MHz	773.881250 MHz	Comanche Fisher Martin Pecos Tom Green
783-784	12.50 KHz	803.893750 MHz	773.893750 MHz	Comanche Fisher Martin Pecos Tom Green

785-786	12.50 KHz	803.906250 MHz	773.906250 MHz	Callahan McCulloch Presidio
787-788	12.50 KHz	803.918750 MHz	773.918750 MHz	Callahan McCulloch Presidio
789-790	12.50 KHz	803.931250 MHz	773.931250 MHz	El Paso Midland Reeves Sutton Throckmorton
791-792	12.50 KHz	803.943750 MHz	773.943750 MHz	El Paso Midland Reeves Sutton Throckmorton
793-794	12.50 KHz	803.956250 MHz	773.956250 MHz	Dawson Runnels
795-796	12.50 KHz	803.968750 MHz	773.968750 MHz	Dawson Runnels
797-798	12.50 KHz	803.981250 MHz	773.981250 MHz	Eastland Ector Haskell Hudspeth Mitchell Schleicher Terrell
799-800	12.50 KHz	803.993750 MHz	773.993750 MHz	Eastland Ector Haskell Hudspeth Mitchell Schleicher Terrell
805-806	12.50 KHz	804.031250 MHz	774.031250 MHz	El Paso Knox McCulloch Midland Presidio Taylor
807-808	12.50 KHz	804.043750 MHz	774.043750 MHz	El Paso Knox McCulloch Midland Presidio Taylor
809-810	12.50 KHz	804.056250 MHz	774.056250 MHz	Pecos Scurry Tom Green
811-812	12.50 KHz	804.068750 MHz	774.068750 MHz	Pecos Scurry Tom Green
813-814	12.50 KHz	804.081250 MHz	774.081250 MHz	Coleman Ector Sutton Throckmorton
815-816	12.50 KHz	804.093750 MHz	774.093750 MHz	Coleman Ector Sutton Throckmorton

821-822	12.50 KHz	804.131250 MHz	774.131250 MHz	Brewster Gaines Scurry Tom Green Ward
823-824	12.50 KHz	804.143750 MHz	774.143750 MHz	Brewster Gaines Scurry Tom Green Ward
825-826	12.50 KHz	804.156250 MHz	774.156250 MHz	Shackelford Upton
827-828	12.50 KHz	804.168750 MHz	774.168750 MHz	Shackelford Upton
829-830	12.50 KHz	804.181250 MHz	774.181250 MHz	Andrews Brown Culberson Knox Nolan
831-832	12.50 KHz	804.193750 MHz	774.193750 MHz	Andrews Brown Culberson Knox Nolan
833-834	12.50 KHz	804.206250 MHz	774.206250 MHz	Howard Kimble Pecos
835-836	12.50 KHz	804.218750 MHz	774.218750 MHz	Howard Kimble Pecos
837-838	12.50 KHz	804.231250 MHz	774.231250 MHz	Ector Fisher Irion McCulloch Presidio
839-840	12.50 KHz	804.243750 MHz	774.243750 MHz	Ector Fisher Irion McCulloch Presidio
845-846	12.50 KHz	804.281250 MHz	774.281250 MHz	Eastland El Paso McCulloch Midland Nolan Presidio
847-848	12.50 KHz	804.293750 MHz	774.293750 MHz	Eastland El Paso McCulloch Midland Nolan Presidio
849-850	12.50 KHz	804.306250 MHz	774.306250 MHz	Dawson Stonewall Tom Green
851-852	12.50 KHz	804.318750 MHz	774.318750 MHz	Dawson Stonewall Tom Green
853-854	12.50 KHz	804.331250 MHz	774.331250 MHz	Brewster Ector

				Sutton Taylor
855-856	12.50 KHz	804.343750 MHz	774.343750 MHz	Brewster Ector Sutton Taylor
861-862	12.50 KHz	804.381250 MHz	774.381250 MHz	Brewster Haskell Tom Green
863-864	12.50 KHz	804.393750 MHz	774.393750 MHz	Brewster Haskell Tom Green
865-866	12.50 KHz	804.406250 MHz	774.406250 MHz	El Paso Midland Reeves Taylor
867-868	12.50 KHz	804.418750 MHz	774.418750 MHz	El Paso Midland Reeves Taylor
869-870	12.50 KHz	804.431250 MHz	774.431250 MHz	Brown Sutton Winkler
871-872	12.50 KHz	804.443750 MHz	774.443750 MHz	Brown Sutton Winkler
873-874	12.50 KHz	804.456250 MHz	774.456250 MHz	Concho Culberson Howard Jones Pecos
875-876	12.50 KHz	804.468750 MHz	774.468750 MHz	Concho Culberson Howard Jones Pecos
877-878	12.50 KHz	804.481250 MHz	774.481250 MHz	Coke Eastland Ector Mason
879-880	12.50 KHz	804.493750 MHz	774.493750 MHz	Coke Eastland Ector Mason
885-886	12.50 KHz	804.531250 MHz	774.531250 MHz	Callahan El Paso Midland Presidio
887-888	12.50 KHz	804.543750 MHz	774.543750 MHz	Callahan El Paso Midland Presidio
889-890	12.50 KHz	804.556250 MHz	774.556250 MHz	Dawson Pecos Stonewall Tom Green
891-892	12.50 KHz	804.568750 MHz	774.568750 MHz	Dawson Pecos Stonewall

				Tom Green
893-894	12.50 KHz	804.581250 MHz	774.581250 MHz	Ector Sutton Taylor
895-896	12.50 KHz	804.593750 MHz	774.593750 MHz	Ector Sutton Taylor
901-902	12.50 KHz	804.631250 MHz	774.631250 MHz	Comanche Dawson Haskell Tom Green
903-904	12.50 KHz	804.643750 MHz	774.643750 MHz	Comanche Dawson Haskell Tom Green
905-906	12.50 KHz	804.656250 MHz	774.656250 MHz	El Paso McCulloch Midland Presidio Taylor
907-908	12.50 KHz	804.668750 MHz	774.668750 MHz	El Paso McCulloch Midland Presidio Taylor
909-910	12.50 KHz	804.681250 MHz	774.681250 MHz	Crockett Kent
911-912	12.50 KHz	804.693750 MHz	774.693750 MHz	Crockett Kent
913-914	12.50 KHz	804.706250 MHz	774.706250 MHz	Howard Knox Reeves Runnels
915-916	12.50 KHz	804.718750 MHz	774.718750 MHz	Howard Knox Reeves Runnels
917-918	12.50 KHz	804.731250 MHz	774.731250 MHz	Brewster Brown Ector Jones Menard
919-920	12.50 KHz	804.743750 MHz	774.743750 MHz	Brewster Brown Ector Jones Menard
925-926	12.50 KHz	804.781250 MHz	774.781250 MHz	El Paso Jones McCulloch Midland Presidio
927-928	12.50 KHz	804.793750 MHz	774.793750 MHz	El Paso Jones McCulloch Midland Presidio
929-930	12.50 KHz	804.806250 MHz	774.806250 MHz	Comanche Scurry

				Tom Green
931-932	12.50 KHz	804.818750 MHz	774.818750 MHz	Comanche Scurry Tom Green
933-934	12.50 KHz	804.831250 MHz	774.831250 MHz	Brewster Ector Sutton Taylor
935-936	12.50 KHz	804.843750 MHz	774.843750 MHz	Brewster Ector Sutton Taylor
941-942	12.50 KHz	804.881250 MHz	774.881250 MHz	Comanche Dawson Pecos Throckmorton Tom Green
943-944	12.50 KHz	804.893750 MHz	774.893750 MHz	Comanche Dawson Pecos Throckmorton Tom Green
945-946	12.50 KHz	804.906250 MHz	774.906250 MHz	El Paso McCulloch Midland Presidio Taylor
947-948	12.50 KHz	804.918750 MHz	774.918750 MHz	El Paso McCulloch Midland Presidio Taylor

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Region 50 - Texas - El Paso
Detailed Channel Allotments by Area

Area Name	Channel	Class	Base Freq	Mobile Freq
Andrews	85-86	Voice General Use	769.531250	799.531250
	87-88	Voice General Use	769.543750	799.543750
	321-322	Voice General Use	771.006250	801.006250
	323-324	Voice General Use	771.018750	801.018750
	365-366	Voice General Use	771.281250	801.281250
	367-368	Voice General Use	771.293750	801.293750
	405-406	Voice General Use	771.531250	801.531250
	407-408	Voice General Use	771.543750	801.543750
	445-446	Voice General Use	771.781250	801.781250
	447-448	Voice General Use	771.793750	801.793750
	485-486	Voice General Use	772.031250	802.031250
	487-488	Voice General Use	772.043750	802.043750
	525-526	Voice General Use	772.281250	802.281250
	527-528	Voice General Use	772.293750	802.293750
	593-594	Voice General Use	772.706250	802.706250
	595-596	Voice General Use	772.718750	802.718750
	741-742	Voice General Use	773.631250	803.631250
	743-744	Voice General Use	773.643750	803.643750
	829-830	Voice General Use	774.181250	804.181250
	831-832	Voice General Use	774.193750	804.193750
	273-274	Voice State License	770.706250	800.706250
	275-276	Voice State License	770.718750	800.718750
	765-766	Voice State License	773.781250	803.781250
	767-768	Voice State License	773.793750	803.793750
Borden	13-14	Voice General Use	769.081250	799.081250
	15-16	Voice General Use	769.093750	799.093750
	81-82	Voice General Use	769.506250	799.506250
	83-84	Voice General Use	769.518750	799.518750
	217-218	Voice General Use	770.356250	800.356250
	219-220	Voice General Use	770.368750	800.368750
	469-470	Voice General Use	771.931250	801.931250
	471-472	Voice General Use	771.943750	801.943750
	549-550	Voice General Use	772.431250	802.431250
	551-552	Voice General Use	772.443750	802.443750
	25-26	Voice State License	769.156250	799.156250
	27-28	Voice State License	769.168750	799.168750
	309-310	Voice State License	770.931250	800.931250
	311-312	Voice State License	770.943750	800.943750
Brewster	17-18	Voice General Use	769.106250	799.106250
	19-20	Voice General Use	769.118750	799.118750
	57-58	Voice General Use	769.356250	799.356250
	59-60	Voice General Use	769.368750	799.368750
	97-98	Voice General Use	769.606250	799.606250
	99-100	Voice General Use	769.618750	799.618750
	137-138	Voice General Use	769.856250	799.856250
	139-140	Voice General Use	769.868750	799.868750
	213-214	Voice General Use	770.331250	800.331250
	215-216	Voice General Use	770.343750	800.343750
	253-254	Voice General Use	770.581250	800.581250
	255-256	Voice General Use	770.593750	800.593750
	325-326	Voice General Use	771.031250	801.031250
	327-328	Voice General Use	771.043750	801.043750
	365-366	Voice General Use	771.281250	801.281250
	367-368	Voice General Use	771.293750	801.293750
	413-414	Voice General Use	771.581250	801.581250
	415-416	Voice General Use	771.593750	801.593750
	465-466	Voice General Use	771.906250	801.906250
	467-468	Voice General Use	771.918750	801.918750
	525-526	Voice General Use	772.281250	802.281250
	527-528	Voice General Use	772.293750	802.293750
	565-566	Voice General Use	772.531250	802.531250
	567-568	Voice General Use	772.543750	802.543750
	625-626	Voice General Use	772.906250	802.906250
	627-628	Voice General Use	772.918750	802.918750
	673-674	Voice General Use	773.206250	803.206250

	675-676	Voice General Use	773.218750	803.218750
	753-754	Voice General Use	773.706250	803.706250
	755-756	Voice General Use	773.718750	803.718750
	821-822	Voice General Use	774.131250	804.131250
	823-824	Voice General Use	774.143750	804.143750
	861-862	Voice General Use	774.381250	804.381250
	863-864	Voice General Use	774.393750	804.393750
	917-918	Voice General Use	774.731250	804.731250
	919-920	Voice General Use	774.743750	804.743750
	33-34	Voice State License	769.206250	799.206250
	35-36	Voice State License	769.218750	799.218750
	105-106	Voice State License	769.656250	799.656250
	107-108	Voice State License	769.668750	799.668750
	185-186	Voice State License	770.156250	800.156250
	187-188	Voice State License	770.168750	800.168750
	233-234	Voice State License	770.456250	800.456250
	235-236	Voice State License	770.468750	800.468750
	305-306	Voice State License	770.906250	800.906250
	307-308	Voice State License	770.918750	800.918750
	733-734	Voice State License	773.581250	803.581250
	735-736	Voice State License	773.593750	803.593750
	853-854	Voice State License	774.331250	804.331250
	855-856	Voice State License	774.343750	804.343750
	933-934	Voice State License	774.831250	804.831250
	935-936	Voice State License	774.843750	804.843750
Brown	13-14	Voice General Use	769.081250	799.081250
	15-16	Voice General Use	769.093750	799.093750
	85-86	Voice General Use	769.531250	799.531250
	87-88	Voice General Use	769.543750	799.543750
	125-126	Voice General Use	769.781250	799.781250
	127-128	Voice General Use	769.793750	799.793750
	201-202	Voice General Use	770.256250	800.256250
	203-204	Voice General Use	770.268750	800.268750
	241-242	Voice General Use	770.506250	800.506250
	243-244	Voice General Use	770.518750	800.518750
	289-290	Voice General Use	770.806250	800.806250
	291-292	Voice General Use	770.818750	800.818750
	361-362	Voice General Use	771.256250	801.256250
	363-364	Voice General Use	771.268750	801.268750
	409-410	Voice General Use	771.556250	801.556250
	411-412	Voice General Use	771.568750	801.568750
	465-466	Voice General Use	771.906250	801.906250
	467-468	Voice General Use	771.918750	801.918750
	549-550	Voice General Use	772.431250	802.431250
	551-552	Voice General Use	772.443750	802.443750
	593-594	Voice General Use	772.706250	802.706250
	595-596	Voice General Use	772.718750	802.718750
	633-634	Voice General Use	772.956250	802.956250
	635-636	Voice General Use	772.968750	802.968750
	677-678	Voice General Use	773.231250	803.231250
	679-680	Voice General Use	773.243750	803.243750
	717-718	Voice General Use	773.481250	803.481250
	719-720	Voice General Use	773.493750	803.493750
	829-830	Voice General Use	774.181250	804.181250
	831-832	Voice General Use	774.193750	804.193750
	869-870	Voice General Use	774.431250	804.431250
	871-872	Voice General Use	774.443750	804.443750
	917-918	Voice General Use	774.731250	804.731250
	919-920	Voice General Use	774.743750	804.743750
	25-26	Voice State License	769.156250	799.156250
	27-28	Voice State License	769.168750	799.168750
	73-74	Voice State License	769.456250	799.456250
	75-76	Voice State License	769.468750	799.468750
	233-234	Voice State License	770.456250	800.456250
	235-236	Voice State License	770.468750	800.468750
	309-310	Voice State License	770.931250	800.931250
	311-312	Voice State License	770.943750	800.943750
	693-694	Voice State License	773.331250	803.331250
	695-696	Voice State License	773.343750	803.343750
	773-774	Voice State License	773.831250	803.831250
	775-776	Voice State License	773.843750	803.843750

Callahan	57-58	Voice General Use	769.356250	799.356250
	59-60	Voice General Use	769.368750	799.368750
	97-98	Voice General Use	769.606250	799.606250
	99-100	Voice General Use	769.618750	799.618750
	209-210	Voice General Use	770.306250	800.306250
	211-212	Voice General Use	770.318750	800.318750
	381-382	Voice General Use	771.381250	801.381250
	383-384	Voice General Use	771.393750	801.393750
	429-430	Voice General Use	771.681250	801.681250
	431-432	Voice General Use	771.693750	801.693750
	501-502	Voice General Use	772.131250	802.131250
	503-504	Voice General Use	772.143750	802.143750
	541-542	Voice General Use	772.381250	802.381250
	543-544	Voice General Use	772.393750	802.393750
	585-586	Voice General Use	772.656250	802.656250
	587-588	Voice General Use	772.668750	802.668750
	785-786	Voice General Use	773.906250	803.906250
	787-788	Voice General Use	773.918750	803.918750
	273-274	Voice State License	770.706250	800.706250
	275-276	Voice State License	770.718750	800.718750
	653-654	Voice State License	773.081250	803.081250
	655-656	Voice State License	773.093750	803.093750
	885-886	Voice State License	774.531250	804.531250
	887-888	Voice State License	774.543750	804.543750
Coke	205-206	Voice General Use	770.281250	800.281250
	207-208	Voice General Use	770.293750	800.293750
	385-386	Voice General Use	771.406250	801.406250
	387-388	Voice General Use	771.418750	801.418750
	505-506	Voice General Use	772.156250	802.156250
	507-508	Voice General Use	772.168750	802.168750
	565-566	Voice General Use	772.531250	802.531250
	567-568	Voice General Use	772.543750	802.543750
	877-878	Voice General Use	774.481250	804.481250
	879-880	Voice General Use	774.493750	804.493750
	733-734	Voice State License	773.581250	803.581250
	735-736	Voice State License	773.593750	803.593750
	773-774	Voice State License	773.831250	803.831250
	775-776	Voice State License	773.843750	803.843750
Coleman	49-50	Voice General Use	769.306250	799.306250
	51-52	Voice General Use	769.318750	799.318750
	297-298	Voice General Use	770.856250	800.856250
	299-300	Voice General Use	770.868750	800.868750
	341-342	Voice General Use	771.131250	801.131250
	343-344	Voice General Use	771.143750	801.143750
	445-446	Voice General Use	771.781250	801.781250
	447-448	Voice General Use	771.793750	801.793750
	485-486	Voice General Use	772.031250	802.031250
	487-488	Voice General Use	772.043750	802.043750
	529-530	Voice General Use	772.306250	802.306250
	531-532	Voice General Use	772.318750	802.318750
	577-578	Voice General Use	772.606250	802.606250
	579-580	Voice General Use	772.618750	802.618750
	617-618	Voice General Use	772.856250	802.856250
	619-620	Voice General Use	772.868750	802.868750
	105-106	Voice State License	769.656250	799.656250
	107-108	Voice State License	769.668750	799.668750
	813-814	Voice State License	774.081250	804.081250
	815-816	Voice State License	774.093750	804.093750
Comanche	53-54	Voice General Use	769.331250	799.331250
	55-56	Voice General Use	769.343750	799.343750
	161-162	Voice General Use	770.006250	800.006250
	163-164	Voice General Use	770.018750	800.018750
	385-386	Voice General Use	771.406250	801.406250
	387-388	Voice General Use	771.418750	801.418750
	425-426	Voice General Use	771.656250	801.656250
	427-428	Voice General Use	771.668750	801.668750
	561-562	Voice General Use	772.506250	802.506250

	563-564	Voice General Use	772.518750	802.518750
	609-610	Voice General Use	772.806250	802.806250
	611-612	Voice General Use	772.818750	802.818750
	781-782	Voice General Use	773.881250	803.881250
	783-784	Voice General Use	773.893750	803.893750
	901-902	Voice General Use	774.631250	804.631250
	903-904	Voice General Use	774.643750	804.643750
	941-942	Voice General Use	774.881250	804.881250
	943-944	Voice General Use	774.893750	804.893750
	109-110	Voice State License	769.681250	799.681250
	111-112	Voice State License	769.693750	799.693750
	185-186	Voice State License	770.156250	800.156250
	187-188	Voice State License	770.168750	800.168750
	269-270	Voice State License	770.681250	800.681250
	271-272	Voice State License	770.693750	800.693750
	929-930	Voice State License	774.806250	804.806250
	931-932	Voice State License	774.818750	804.818750
Concho	129-130	Voice General Use	769.806250	799.806250
	131-132	Voice General Use	769.818750	799.818750
	209-210	Voice General Use	770.306250	800.306250
	211-212	Voice General Use	770.318750	800.318750
	333-334	Voice General Use	771.081250	801.081250
	335-336	Voice General Use	771.093750	801.093750
	381-382	Voice General Use	771.381250	801.381250
	383-384	Voice General Use	771.393750	801.393750
	425-426	Voice General Use	771.656250	801.656250
	427-428	Voice General Use	771.668750	801.668750
	521-522	Voice General Use	772.256250	802.256250
	523-524	Voice General Use	772.268750	802.268750
	569-570	Voice General Use	772.556250	802.556250
	571-572	Voice General Use	772.568750	802.568750
	673-674	Voice General Use	773.206250	803.206250
	675-676	Voice General Use	773.218750	803.218750
	713-714	Voice General Use	773.456250	803.456250
	715-716	Voice General Use	773.468750	803.468750
	873-874	Voice General Use	774.456250	804.456250
	875-876	Voice General Use	774.468750	804.468750
	769-770	Voice State License	773.806250	803.806250
	771-772	Voice State License	773.818750	803.818750
Crane	245-246	Voice General Use	770.531250	800.531250
	247-248	Voice General Use	770.543750	800.543750
	349-350	Voice General Use	771.181250	801.181250
	351-352	Voice General Use	771.193750	801.193750
	417-418	Voice General Use	771.606250	801.606250
	419-420	Voice General Use	771.618750	801.618750
	461-462	Voice General Use	771.881250	801.881250
	463-464	Voice General Use	771.893750	801.893750
	529-530	Voice General Use	772.306250	802.306250
	531-532	Voice General Use	772.318750	802.318750
	569-570	Voice General Use	772.556250	802.556250
	571-572	Voice General Use	772.568750	802.568750
	113-114	Voice State License	769.706250	799.706250
	115-116	Voice State License	769.718750	799.718750
	269-270	Voice State License	770.681250	800.681250
	271-272	Voice State License	770.693750	800.693750
Crockett	133-134	Voice General Use	769.831250	799.831250
	135-136	Voice General Use	769.843750	799.843750
	173-174	Voice General Use	770.081250	800.081250
	175-176	Voice General Use	770.093750	800.093750
	293-294	Voice General Use	770.831250	800.831250
	295-296	Voice General Use	770.843750	800.843750
	369-370	Voice General Use	771.306250	801.306250
	371-372	Voice General Use	771.318750	801.318750
	429-430	Voice General Use	771.681250	801.681250
	431-432	Voice General Use	771.693750	801.693750
	501-502	Voice General Use	772.131250	802.131250
	503-504	Voice General Use	772.143750	802.143750
	541-542	Voice General Use	772.381250	802.381250

	543-544	Voice General Use	772.393750	802.393750
	625-626	Voice General Use	772.906250	802.906250
	627-628	Voice General Use	772.918750	802.918750
	669-670	Voice General Use	773.181250	803.181250
	671-672	Voice General Use	773.193750	803.193750
	909-910	Voice General Use	774.681250	804.681250
	911-912	Voice General Use	774.693750	804.693750
	189-190	Voice State License	770.181250	800.181250
	191-192	Voice State License	770.193750	800.193750
	233-234	Voice State License	770.456250	800.456250
	235-236	Voice State License	770.468750	800.468750
Culberson	249-250	Voice General Use	770.556250	800.556250
	251-252	Voice General Use	770.568750	800.568750
	349-350	Voice General Use	771.181250	801.181250
	351-352	Voice General Use	771.193750	801.193750
	397-398	Voice General Use	771.481250	801.481250
	399-400	Voice General Use	771.493750	801.493750
	441-442	Voice General Use	771.756250	801.756250
	443-444	Voice General Use	771.768750	801.768750
	485-486	Voice General Use	772.031250	802.031250
	487-488	Voice General Use	772.043750	802.043750
	525-526	Voice General Use	772.281250	802.281250
	527-528	Voice General Use	772.293750	802.293750
	569-570	Voice General Use	772.556250	802.556250
	571-572	Voice General Use	772.568750	802.568750
	621-622	Voice General Use	772.881250	802.881250
	623-624	Voice General Use	772.893750	802.893750
	757-758	Voice General Use	773.731250	803.731250
	759-760	Voice General Use	773.743750	803.743750
	829-830	Voice General Use	774.181250	804.181250
	831-832	Voice General Use	774.193750	804.193750
	873-874	Voice General Use	774.456250	804.456250
	875-876	Voice General Use	774.468750	804.468750
	73-74	Voice State License	769.456250	799.456250
	75-76	Voice State License	769.468750	799.468750
Dawson	41-42	Voice General Use	769.256250	799.256250
	43-44	Voice General Use	769.268750	799.268750
	121-122	Voice General Use	769.756250	799.756250
	123-124	Voice General Use	769.768750	799.768750
	241-242	Voice General Use	770.506250	800.506250
	243-244	Voice General Use	770.518750	800.518750
	285-286	Voice General Use	770.781250	800.781250
	287-288	Voice General Use	770.793750	800.793750
	353-354	Voice General Use	771.206250	801.206250
	355-356	Voice General Use	771.218750	801.218750
	393-394	Voice General Use	771.456250	801.456250
	395-396	Voice General Use	771.468750	801.468750
	453-454	Voice General Use	771.831250	801.831250
	455-456	Voice General Use	771.843750	801.843750
	513-514	Voice General Use	772.206250	802.206250
	515-516	Voice General Use	772.218750	802.218750
	561-562	Voice General Use	772.506250	802.506250
	563-564	Voice General Use	772.518750	802.518750
	793-794	Voice General Use	773.956250	803.956250
	795-796	Voice General Use	773.968750	803.968750
	901-902	Voice General Use	774.631250	804.631250
	903-904	Voice General Use	774.643750	804.643750
	941-942	Voice General Use	774.881250	804.881250
	943-944	Voice General Use	774.893750	804.893750
	729-730	Voice State License	773.556250	803.556250
	731-732	Voice State License	773.568750	803.568750
	849-850	Voice State License	774.306250	804.306250
	851-852	Voice State License	774.318750	804.318750
	889-890	Voice State License	774.556250	804.556250
	891-892	Voice State License	774.568750	804.568750
Eastland	177-178	Voice General Use	770.106250	800.106250
	179-180	Voice General Use	770.118750	800.118750
	217-218	Voice General Use	770.356250	800.356250

	219-220	Voice General Use	770.368750	800.368750
	257-258	Voice General Use	770.606250	800.606250
	259-260	Voice General Use	770.618750	800.618750
	349-350	Voice General Use	771.181250	801.181250
	351-352	Voice General Use	771.193750	801.193750
	401-402	Voice General Use	771.506250	801.506250
	403-404	Voice General Use	771.518750	801.518750
	477-478	Voice General Use	771.981250	801.981250
	479-480	Voice General Use	771.993750	801.993750
	601-602	Voice General Use	772.756250	802.756250
	603-604	Voice General Use	772.768750	802.768750
	665-666	Voice General Use	773.156250	803.156250
	667-668	Voice General Use	773.168750	803.168750
	741-742	Voice General Use	773.631250	803.631250
	743-744	Voice General Use	773.643750	803.643750
	797-798	Voice General Use	773.981250	803.981250
	799-800	Voice General Use	773.993750	803.993750
	877-878	Voice General Use	774.481250	804.481250
	879-880	Voice General Use	774.493750	804.493750
	153-154	Voice State License	769.956250	799.956250
	155-156	Voice State License	769.968750	799.968750
	765-766	Voice State License	773.781250	803.781250
	767-768	Voice State License	773.793750	803.793750
	845-846	Voice State License	774.281250	804.281250
	847-848	Voice State License	774.293750	804.293750
Ector	45-46	Voice General Use	769.281250	799.281250
	47-48	Voice General Use	769.293750	799.293750
	93-94	Voice General Use	769.581250	799.581250
	95-96	Voice General Use	769.593750	799.593750
	137-138	Voice General Use	769.856250	799.856250
	139-140	Voice General Use	769.868750	799.868750
	177-178	Voice General Use	770.106250	800.106250
	179-180	Voice General Use	770.118750	800.118750
	217-218	Voice General Use	770.356250	800.356250
	219-220	Voice General Use	770.368750	800.368750
	289-290	Voice General Use	770.806250	800.806250
	291-292	Voice General Use	770.818750	800.818750
	329-330	Voice General Use	771.056250	801.056250
	331-332	Voice General Use	771.068750	801.068750
	373-374	Voice General Use	771.331250	801.331250
	375-376	Voice General Use	771.343750	801.343750
	425-426	Voice General Use	771.656250	801.656250
	427-428	Voice General Use	771.668750	801.668750
	469-470	Voice General Use	771.931250	801.931250
	471-472	Voice General Use	771.943750	801.943750
	549-550	Voice General Use	772.431250	802.431250
	551-552	Voice General Use	772.443750	802.443750
	601-602	Voice General Use	772.756250	802.756250
	603-604	Voice General Use	772.768750	802.768750
	673-674	Voice General Use	773.206250	803.206250
	675-676	Voice General Use	773.218750	803.218750
	713-714	Voice General Use	773.456250	803.456250
	715-716	Voice General Use	773.468750	803.468750
	757-758	Voice General Use	773.731250	803.731250
	759-760	Voice General Use	773.743750	803.743750
	797-798	Voice General Use	773.981250	803.981250
	799-800	Voice General Use	773.993750	803.993750
	837-838	Voice General Use	774.231250	804.231250
	839-840	Voice General Use	774.243750	804.243750
	877-878	Voice General Use	774.481250	804.481250
	879-880	Voice General Use	774.493750	804.493750
	917-918	Voice General Use	774.731250	804.731250
	919-920	Voice General Use	774.743750	804.743750
	149-150	Voice State License	769.931250	799.931250
	151-152	Voice State License	769.943750	799.943750
	193-194	Voice State License	770.206250	800.206250
	195-196	Voice State License	770.218750	800.218750
	313-314	Voice State License	770.956250	800.956250
	315-316	Voice State License	770.968750	800.968750
	653-654	Voice State License	773.081250	803.081250
	655-656	Voice State License	773.093750	803.093750

	693-694	Voice State License	773.331250	803.331250
	695-696	Voice State License	773.343750	803.343750
	773-774	Voice State License	773.831250	803.831250
	775-776	Voice State License	773.843750	803.843750
	813-814	Voice State License	774.081250	804.081250
	815-816	Voice State License	774.093750	804.093750
	853-854	Voice State License	774.331250	804.331250
	855-856	Voice State License	774.343750	804.343750
	893-894	Voice State License	774.581250	804.581250
	895-896	Voice State License	774.593750	804.593750
	933-934	Voice State License	774.831250	804.831250
	935-936	Voice State License	774.843750	804.843750
El Paso	45-46	Voice General Use	769.281250	799.281250
	47-48	Voice General Use	769.293750	799.293750
	85-86	Voice General Use	769.531250	799.531250
	87-88	Voice General Use	769.543750	799.543750
	129-130	Voice General Use	769.806250	799.806250
	131-132	Voice General Use	769.818750	799.818750
	173-174	Voice General Use	770.081250	800.081250
	175-176	Voice General Use	770.093750	800.093750
	241-242	Voice General Use	770.506250	800.506250
	243-244	Voice General Use	770.518750	800.518750
	281-282	Voice General Use	770.756250	800.756250
	283-284	Voice General Use	770.768750	800.768750
	321-322	Voice General Use	771.006250	801.006250
	323-324	Voice General Use	771.018750	801.018750
	361-362	Voice General Use	771.256250	801.256250
	363-364	Voice General Use	771.268750	801.268750
	401-402	Voice General Use	771.506250	801.506250
	403-404	Voice General Use	771.518750	801.518750
	469-470	Voice General Use	771.931250	801.931250
	471-472	Voice General Use	771.943750	801.943750
	545-546	Voice General Use	772.406250	802.406250
	547-548	Voice General Use	772.418750	802.418750
	585-586	Voice General Use	772.656250	802.656250
	587-588	Voice General Use	772.668750	802.668750
	629-630	Voice General Use	772.931250	802.931250
	631-632	Voice General Use	772.943750	802.943750
	701-702	Voice General Use	773.381250	803.381250
	703-704	Voice General Use	773.393750	803.393750
	741-742	Voice General Use	773.631250	803.631250
	743-744	Voice General Use	773.643750	803.643750
	789-790	Voice General Use	773.931250	803.931250
	791-792	Voice General Use	773.943750	803.943750
	865-866	Voice General Use	774.406250	804.406250
	867-868	Voice General Use	774.418750	804.418750
	905-906	Voice General Use	774.656250	804.656250
	907-908	Voice General Use	774.668750	804.668750
	945-946	Voice General Use	774.906250	804.906250
	947-948	Voice General Use	774.918750	804.918750
	25-26	Voice State License	769.156250	799.156250
	27-28	Voice State License	769.168750	799.168750
	65-66	Voice State License	769.406250	799.406250
	67-68	Voice State License	769.418750	799.418750
	113-114	Voice State License	769.706250	799.706250
	115-116	Voice State License	769.718750	799.718750
	153-154	Voice State License	769.956250	799.956250
	155-156	Voice State License	769.968750	799.968750
	193-194	Voice State License	770.206250	800.206250
	195-196	Voice State License	770.218750	800.218750
	233-234	Voice State License	770.456250	800.456250
	235-236	Voice State License	770.468750	800.468750
	273-274	Voice State License	770.706250	800.706250
	275-276	Voice State License	770.718750	800.718750
	313-314	Voice State License	770.956250	800.956250
	315-316	Voice State License	770.968750	800.968750
	645-646	Voice State License	773.031250	803.031250
	647-648	Voice State License	773.043750	803.043750
	685-686	Voice State License	773.281250	803.281250
	687-688	Voice State License	773.293750	803.293750
	725-726	Voice State License	773.531250	803.531250
	727-728	Voice State License	773.543750	803.543750

	765-766	Voice State License	773.781250	803.781250
	767-768	Voice State License	773.793750	803.793750
	805-806	Voice State License	774.031250	804.031250
	807-808	Voice State License	774.043750	804.043750
	845-846	Voice State License	774.281250	804.281250
	847-848	Voice State License	774.293750	804.293750
	885-886	Voice State License	774.531250	804.531250
	887-888	Voice State License	774.543750	804.543750
	925-926	Voice State License	774.781250	804.781250
	927-928	Voice State License	774.793750	804.793750
Fisher	53-54	Voice General Use	769.331250	799.331250
	55-56	Voice General Use	769.343750	799.343750
	393-394	Voice General Use	771.456250	801.456250
	395-396	Voice General Use	771.468750	801.468750
	445-446	Voice General Use	771.781250	801.781250
	447-448	Voice General Use	771.793750	801.793750
	605-606	Voice General Use	772.781250	802.781250
	607-608	Voice General Use	772.793750	802.793750
	781-782	Voice General Use	773.881250	803.881250
	783-784	Voice General Use	773.893750	803.893750
	837-838	Voice General Use	774.231250	804.231250
	839-840	Voice General Use	774.243750	804.243750
	29-30	Voice State License	769.181250	799.181250
	31-32	Voice State License	769.193750	799.193750
	185-186	Voice State License	770.156250	800.156250
	187-188	Voice State License	770.168750	800.168750
Gaines	165-166	Voice General Use	770.031250	800.031250
	167-168	Voice General Use	770.043750	800.043750
	293-294	Voice General Use	770.831250	800.831250
	295-296	Voice General Use	770.843750	800.843750
	333-334	Voice General Use	771.081250	801.081250
	335-336	Voice General Use	771.093750	801.093750
	381-382	Voice General Use	771.381250	801.381250
	383-384	Voice General Use	771.393750	801.393750
	433-434	Voice General Use	771.706250	801.706250
	435-436	Voice General Use	771.718750	801.718750
	473-474	Voice General Use	771.956250	801.956250
	475-476	Voice General Use	771.968750	801.968750
	545-546	Voice General Use	772.406250	802.406250
	547-548	Voice General Use	772.418750	802.418750
	613-614	Voice General Use	772.831250	802.831250
	615-616	Voice General Use	772.843750	802.843750
	665-666	Voice General Use	773.156250	803.156250
	667-668	Voice General Use	773.168750	803.168750
	753-754	Voice General Use	773.706250	803.706250
	755-756	Voice General Use	773.718750	803.718750
	821-822	Voice General Use	774.131250	804.131250
	823-824	Voice General Use	774.143750	804.143750
	145-146	Voice State License	769.906250	799.906250
	147-148	Voice State License	769.918750	799.918750
	189-190	Voice State License	770.181250	800.181250
	191-192	Voice State License	770.193750	800.193750
	649-650	Voice State License	773.056250	803.056250
	651-652	Voice State License	773.068750	803.068750
Glasscock	341-342	Voice General Use	771.131250	801.131250
	343-344	Voice General Use	771.143750	801.143750
	381-382	Voice General Use	771.381250	801.381250
	383-384	Voice General Use	771.393750	801.393750
	509-510	Voice General Use	772.181250	802.181250
	511-512	Voice General Use	772.193750	802.193750
	553-554	Voice General Use	772.456250	802.456250
	555-556	Voice General Use	772.468750	802.468750
	677-678	Voice General Use	773.231250	803.231250
	679-680	Voice General Use	773.243750	803.243750
	145-146	Voice State License	769.906250	799.906250
	147-148	Voice State License	769.918750	799.918750
Haskell	13-14	Voice General Use	769.081250	799.081250

	15-16	Voice General Use	769.093750	799.093750
	129-130	Voice General Use	769.806250	799.806250
	131-132	Voice General Use	769.818750	799.818750
	217-218	Voice General Use	770.356250	800.356250
	219-220	Voice General Use	770.368750	800.368750
	281-282	Voice General Use	770.756250	800.756250
	283-284	Voice General Use	770.768750	800.768750
	329-330	Voice General Use	771.056250	801.056250
	331-332	Voice General Use	771.068750	801.068750
	441-442	Voice General Use	771.756250	801.756250
	443-444	Voice General Use	771.768750	801.768750
	505-506	Voice General Use	772.156250	802.156250
	507-508	Voice General Use	772.168750	802.168750
	593-594	Voice General Use	772.706250	802.706250
	595-596	Voice General Use	772.718750	802.718750
	637-638	Voice General Use	772.981250	802.981250
	639-640	Voice General Use	772.993750	802.993750
	741-742	Voice General Use	773.631250	803.631250
	743-744	Voice General Use	773.643750	803.643750
	797-798	Voice General Use	773.981250	803.981250
	799-800	Voice General Use	773.993750	803.993750
	861-862	Voice General Use	774.381250	804.381250
	863-864	Voice General Use	774.393750	804.393750
	901-902	Voice General Use	774.631250	804.631250
	903-904	Voice General Use	774.643750	804.643750
	25-26	Voice State License	769.156250	799.156250
	27-28	Voice State License	769.168750	799.168750
	153-154	Voice State License	769.956250	799.956250
	155-156	Voice State License	769.968750	799.968750
	309-310	Voice State License	770.931250	800.931250
	311-312	Voice State License	770.943750	800.943750
	649-650	Voice State License	773.056250	803.056250
	651-652	Voice State License	773.068750	803.068750
	769-770	Voice State License	773.806250	803.806250
	771-772	Voice State License	773.818750	803.818750
Howard	49-50	Voice General Use	769.306250	799.306250
	51-52	Voice General Use	769.318750	799.318750
	97-98	Voice General Use	769.606250	799.606250
	99-100	Voice General Use	769.618750	799.618750
	169-170	Voice General Use	770.056250	800.056250
	171-172	Voice General Use	770.068750	800.068750
	209-210	Voice General Use	770.306250	800.306250
	211-212	Voice General Use	770.318750	800.318750
	249-250	Voice General Use	770.556250	800.556250
	251-252	Voice General Use	770.568750	800.568750
	325-326	Voice General Use	771.031250	801.031250
	327-328	Voice General Use	771.043750	801.043750
	369-370	Voice General Use	771.306250	801.306250
	371-372	Voice General Use	771.318750	801.318750
	421-422	Voice General Use	771.631250	801.631250
	423-424	Voice General Use	771.643750	801.643750
	461-462	Voice General Use	771.881250	801.881250
	463-464	Voice General Use	771.893750	801.893750
	529-530	Voice General Use	772.306250	802.306250
	531-532	Voice General Use	772.318750	802.318750
	569-570	Voice General Use	772.556250	802.556250
	571-572	Voice General Use	772.568750	802.568750
	621-622	Voice General Use	772.881250	802.881250
	623-624	Voice General Use	772.893750	802.893750
	669-670	Voice General Use	773.181250	803.181250
	671-672	Voice General Use	773.193750	803.193750
	717-718	Voice General Use	773.481250	803.481250
	719-720	Voice General Use	773.493750	803.493750
	833-834	Voice General Use	774.206250	804.206250
	835-836	Voice General Use	774.218750	804.218750
	873-874	Voice General Use	774.456250	804.456250
	875-876	Voice General Use	774.468750	804.468750
	913-914	Voice General Use	774.706250	804.706250
	915-916	Voice General Use	774.718750	804.718750
	33-34	Voice State License	769.206250	799.206250
	35-36	Voice State License	769.218750	799.218750

	113-114	Voice State License	769.706250	799.706250
	115-116	Voice State License	769.718750	799.718750
	265-266	Voice State License	770.656250	800.656250
	267-268	Voice State License	770.668750	800.668750
	645-646	Voice State License	773.031250	803.031250
	647-648	Voice State License	773.043750	803.043750
	769-770	Voice State License	773.806250	803.806250
	771-772	Voice State License	773.818750	803.818750
Hudspeth	17-18	Voice General Use	769.106250	799.106250
	19-20	Voice General Use	769.118750	799.118750
	57-58	Voice General Use	769.356250	799.356250
	59-60	Voice General Use	769.368750	799.368750
	97-98	Voice General Use	769.606250	799.606250
	99-100	Voice General Use	769.618750	799.618750
	369-370	Voice General Use	771.306250	801.306250
	371-372	Voice General Use	771.318750	801.318750
	409-410	Voice General Use	771.556250	801.556250
	411-412	Voice General Use	771.568750	801.568750
	453-454	Voice General Use	771.831250	801.831250
	455-456	Voice General Use	771.843750	801.843750
	493-494	Voice General Use	772.081250	802.081250
	495-496	Voice General Use	772.093750	802.093750
	613-614	Voice General Use	772.831250	802.831250
	615-616	Voice General Use	772.843750	802.843750
	797-798	Voice General Use	773.981250	803.981250
	799-800	Voice General Use	773.993750	803.993750
	33-34	Voice State License	769.206250	799.206250
	35-36	Voice State License	769.218750	799.218750
	105-106	Voice State License	769.656250	799.656250
	107-108	Voice State License	769.668750	799.668750
Irion	93-94	Voice General Use	769.581250	799.581250
	95-96	Voice General Use	769.593750	799.593750
	241-242	Voice General Use	770.506250	800.506250
	243-244	Voice General Use	770.518750	800.518750
	281-282	Voice General Use	770.756250	800.756250
	283-284	Voice General Use	770.768750	800.768750
	361-362	Voice General Use	771.256250	801.256250
	363-364	Voice General Use	771.268750	801.268750
	457-458	Voice General Use	771.856250	801.856250
	459-460	Voice General Use	771.868750	801.868750
	525-526	Voice General Use	772.281250	802.281250
	527-528	Voice General Use	772.293750	802.293750
	617-618	Voice General Use	772.856250	802.856250
	619-620	Voice General Use	772.868750	802.868750
	717-718	Voice General Use	773.481250	803.481250
	719-720	Voice General Use	773.493750	803.493750
	757-758	Voice General Use	773.731250	803.731250
	759-760	Voice General Use	773.743750	803.743750
	837-838	Voice General Use	774.231250	804.231250
	839-840	Voice General Use	774.243750	804.243750
	113-114	Voice State License	769.706250	799.706250
	115-116	Voice State License	769.718750	799.718750
	729-730	Voice State License	773.556250	803.556250
	731-732	Voice State License	773.568750	803.568750
Jeff Davis	177-178	Voice General Use	770.106250	800.106250
	179-180	Voice General Use	770.118750	800.118750
	297-298	Voice General Use	770.856250	800.856250
	299-300	Voice General Use	770.868750	800.868750
	357-358	Voice General Use	771.231250	801.231250
	359-360	Voice General Use	771.243750	801.243750
	501-502	Voice General Use	772.131250	802.131250
	503-504	Voice General Use	772.143750	802.143750
	545-546	Voice General Use	772.406250	802.406250
	547-548	Voice General Use	772.418750	802.418750
	585-586	Voice General Use	772.656250	802.656250
	587-588	Voice General Use	772.668750	802.668750
	717-718	Voice General Use	773.481250	803.481250
	719-720	Voice General Use	773.493750	803.493750

	113-114	Voice State License	769.706250	799.706250
	115-116	Voice State License	769.718750	799.718750
	193-194	Voice State License	770.206250	800.206250
	195-196	Voice State License	770.218750	800.218750
	725-726	Voice State License	773.531250	803.531250
	727-728	Voice State License	773.543750	803.543750
	773-774	Voice State License	773.831250	803.831250
	775-776	Voice State License	773.843750	803.843750
Jones	161-162	Voice General Use	770.006250	800.006250
	163-164	Voice General Use	770.018750	800.018750
	201-202	Voice General Use	770.256250	800.256250
	203-204	Voice General Use	770.268750	800.268750
	253-254	Voice General Use	770.581250	800.581250
	255-256	Voice General Use	770.593750	800.593750
	353-354	Voice General Use	771.206250	801.206250
	355-356	Voice General Use	771.218750	801.218750
	409-410	Voice General Use	771.556250	801.556250
	411-412	Voice General Use	771.568750	801.568750
	469-470	Voice General Use	771.931250	801.931250
	471-472	Voice General Use	771.943750	801.943750
	549-550	Voice General Use	772.431250	802.431250
	551-552	Voice General Use	772.443750	802.443750
	621-622	Voice General Use	772.881250	802.881250
	623-624	Voice General Use	772.893750	802.893750
	677-678	Voice General Use	773.231250	803.231250
	679-680	Voice General Use	773.243750	803.243750
	717-718	Voice General Use	773.481250	803.481250
	719-720	Voice General Use	773.493750	803.493750
	873-874	Voice General Use	774.456250	804.456250
	875-876	Voice General Use	774.468750	804.468750
	917-918	Voice General Use	774.731250	804.731250
	919-920	Voice General Use	774.743750	804.743750
	73-74	Voice State License	769.456250	799.456250
	75-76	Voice State License	769.468750	799.468750
	145-146	Voice State License	769.906250	799.906250
	147-148	Voice State License	769.918750	799.918750
	193-194	Voice State License	770.206250	800.206250
	195-196	Voice State License	770.218750	800.218750
	693-694	Voice State License	773.331250	803.331250
	695-696	Voice State License	773.343750	803.343750
	925-926	Voice State License	774.781250	804.781250
	927-928	Voice State License	774.793750	804.793750
Kent	205-206	Voice General Use	770.281250	800.281250
	207-208	Voice General Use	770.293750	800.293750
	333-334	Voice General Use	771.081250	801.081250
	335-336	Voice General Use	771.093750	801.093750
	385-386	Voice General Use	771.406250	801.406250
	387-388	Voice General Use	771.418750	801.418750
	425-426	Voice General Use	771.656250	801.656250
	427-428	Voice General Use	771.668750	801.668750
	517-518	Voice General Use	772.231250	802.231250
	519-520	Voice General Use	772.243750	802.243750
	589-590	Voice General Use	772.681250	802.681250
	591-592	Voice General Use	772.693750	802.693750
	713-714	Voice General Use	773.456250	803.456250
	715-716	Voice General Use	773.468750	803.468750
	909-910	Voice General Use	774.681250	804.681250
	911-912	Voice General Use	774.693750	804.693750
	269-270	Voice State License	770.681250	800.681250
	271-272	Voice State License	770.693750	800.693750
	733-734	Voice State License	773.581250	803.581250
	735-736	Voice State License	773.593750	803.593750
Kimble	89-90	Voice General Use	769.556250	799.556250
	91-92	Voice General Use	769.568750	799.568750
	213-214	Voice General Use	770.331250	800.331250
	215-216	Voice General Use	770.343750	800.343750
	297-298	Voice General Use	770.856250	800.856250
	299-300	Voice General Use	770.868750	800.868750
	341-342	Voice General Use	771.131250	801.131250

	343-344	Voice General Use	771.143750	801.143750
	385-386	Voice General Use	771.406250	801.406250
	387-388	Voice General Use	771.418750	801.418750
	441-442	Voice General Use	771.756250	801.756250
	443-444	Voice General Use	771.768750	801.768750
	517-518	Voice General Use	772.231250	802.231250
	519-520	Voice General Use	772.243750	802.243750
	557-558	Voice General Use	772.481250	802.481250
	559-560	Voice General Use	772.493750	802.493750
	637-638	Voice General Use	772.981250	802.981250
	639-640	Voice General Use	772.993750	802.993750
	749-750	Voice General Use	773.681250	803.681250
	751-752	Voice General Use	773.693750	803.693750
	833-834	Voice General Use	774.206250	804.206250
	835-836	Voice General Use	774.218750	804.218750
	33-34	Voice State License	769.206250	799.206250
	35-36	Voice State License	769.218750	799.218750
	145-146	Voice State License	769.906250	799.906250
	147-148	Voice State License	769.918750	799.918750
	225-226	Voice State License	770.406250	800.406250
	227-228	Voice State License	770.418750	800.418750
	273-274	Voice State License	770.706250	800.706250
	275-276	Voice State License	770.718750	800.718750
Knox	57-58	Voice General Use	769.356250	799.356250
	59-60	Voice General Use	769.368750	799.368750
	297-298	Voice General Use	770.856250	800.856250
	299-300	Voice General Use	770.868750	800.868750
	341-342	Voice General Use	771.131250	801.131250
	343-344	Voice General Use	771.143750	801.143750
	381-382	Voice General Use	771.381250	801.381250
	383-384	Voice General Use	771.393750	801.393750
	433-434	Voice General Use	771.706250	801.706250
	435-436	Voice General Use	771.718750	801.718750
	473-474	Voice General Use	771.956250	801.956250
	475-476	Voice General Use	771.968750	801.968750
	557-558	Voice General Use	772.481250	802.481250
	559-560	Voice General Use	772.493750	802.493750
	609-610	Voice General Use	772.806250	802.806250
	611-612	Voice General Use	772.818750	802.818750
	669-670	Voice General Use	773.181250	803.181250
	671-672	Voice General Use	773.193750	803.193750
	749-750	Voice General Use	773.681250	803.681250
	751-752	Voice General Use	773.693750	803.693750
	829-830	Voice General Use	774.181250	804.181250
	831-832	Voice General Use	774.193750	804.193750
	913-914	Voice General Use	774.706250	804.706250
	915-916	Voice General Use	774.718750	804.718750
	33-34	Voice State License	769.206250	799.206250
	35-36	Voice State License	769.218750	799.218750
	729-730	Voice State License	773.556250	803.556250
	731-732	Voice State License	773.568750	803.568750
	805-806	Voice State License	774.031250	804.031250
	807-808	Voice State License	774.043750	804.043750
Loving	161-162	Voice General Use	770.006250	800.006250
	163-164	Voice General Use	770.018750	800.018750
	297-298	Voice General Use	770.856250	800.856250
	299-300	Voice General Use	770.868750	800.868750
	369-370	Voice General Use	771.306250	801.306250
	371-372	Voice General Use	771.318750	801.318750
	409-410	Voice General Use	771.556250	801.556250
	411-412	Voice General Use	771.568750	801.568750
	493-494	Voice General Use	772.081250	802.081250
	495-496	Voice General Use	772.093750	802.093750
	561-562	Voice General Use	772.506250	802.506250
	563-564	Voice General Use	772.518750	802.518750
	613-614	Voice General Use	772.831250	802.831250
	615-616	Voice General Use	772.843750	802.843750
	677-678	Voice General Use	773.231250	803.231250
	679-680	Voice General Use	773.243750	803.243750
	717-718	Voice General Use	773.481250	803.481250

	719-720	Voice General Use	773.493750	803.493750
	109-110	Voice State License	769.681250	799.681250
	111-112	Voice State License	769.693750	799.693750
	265-266	Voice State License	770.656250	800.656250
	267-268	Voice State License	770.668750	800.668750
	309-310	Voice State License	770.931250	800.931250
	311-312	Voice State License	770.943750	800.943750
Martin	497-498	Voice General Use	772.106250	802.106250
	499-500	Voice General Use	772.118750	802.118750
	537-538	Voice General Use	772.356250	802.356250
	539-540	Voice General Use	772.368750	802.368750
	585-586	Voice General Use	772.656250	802.656250
	587-588	Voice General Use	772.668750	802.668750
	637-638	Voice General Use	772.981250	802.981250
	639-640	Voice General Use	772.993750	802.993750
	781-782	Voice General Use	773.881250	803.881250
	783-784	Voice General Use	773.893750	803.893750
	73-74	Voice State License	769.456250	799.456250
	75-76	Voice State License	769.468750	799.468750
	233-234	Voice State License	770.456250	800.456250
	235-236	Voice State License	770.468750	800.468750
Mason	17-18	Voice General Use	769.106250	799.106250
	19-20	Voice General Use	769.118750	799.118750
	121-122	Voice General Use	769.756250	799.756250
	123-124	Voice General Use	769.768750	799.768750
	205-206	Voice General Use	770.281250	800.281250
	207-208	Voice General Use	770.293750	800.293750
	253-254	Voice General Use	770.581250	800.581250
	255-256	Voice General Use	770.593750	800.593750
	469-470	Voice General Use	771.931250	801.931250
	471-472	Voice General Use	771.943750	801.943750
	525-526	Voice General Use	772.281250	802.281250
	527-528	Voice General Use	772.293750	802.293750
	573-574	Voice General Use	772.581250	802.581250
	575-576	Voice General Use	772.593750	802.593750
	757-758	Voice General Use	773.731250	803.731250
	759-760	Voice General Use	773.743750	803.743750
	877-878	Voice General Use	774.481250	804.481250
	879-880	Voice General Use	774.493750	804.493750
	313-314	Voice State License	770.956250	800.956250
	315-316	Voice State License	770.968750	800.968750
	733-734	Voice State License	773.581250	803.581250
	735-736	Voice State License	773.593750	803.593750
McCulloch	41-42	Voice General Use	769.256250	799.256250
	43-44	Voice General Use	769.268750	799.268750
	93-94	Voice General Use	769.581250	799.581250
	95-96	Voice General Use	769.593750	799.593750
	137-138	Voice General Use	769.856250	799.856250
	139-140	Voice General Use	769.868750	799.868750
	217-218	Voice General Use	770.356250	800.356250
	219-220	Voice General Use	770.368750	800.368750
	281-282	Voice General Use	770.756250	800.756250
	283-284	Voice General Use	770.768750	800.768750
	353-354	Voice General Use	771.206250	801.206250
	355-356	Voice General Use	771.218750	801.218750
	393-394	Voice General Use	771.456250	801.456250
	395-396	Voice General Use	771.468750	801.468750
	433-434	Voice General Use	771.706250	801.706250
	435-436	Voice General Use	771.718750	801.718750
	477-478	Voice General Use	771.981250	801.981250
	479-480	Voice General Use	771.993750	801.993750
	541-542	Voice General Use	772.381250	802.381250
	543-544	Voice General Use	772.393750	802.393750
	605-606	Voice General Use	772.781250	802.781250
	607-608	Voice General Use	772.793750	802.793750
	745-746	Voice General Use	773.656250	803.656250
	747-748	Voice General Use	773.668750	803.668750
	785-786	Voice General Use	773.906250	803.906250

	787-788	Voice General Use	773.918750	803.918750
	837-838	Voice General Use	774.231250	804.231250
	839-840	Voice General Use	774.243750	804.243750
	905-906	Voice General Use	774.656250	804.656250
	907-908	Voice General Use	774.668750	804.668750
	945-946	Voice General Use	774.906250	804.906250
	947-948	Voice General Use	774.918750	804.918750
	113-114	Voice State License	769.706250	799.706250
	115-116	Voice State License	769.718750	799.718750
	265-266	Voice State License	770.656250	800.656250
	267-268	Voice State License	770.668750	800.668750
	685-686	Voice State License	773.281250	803.281250
	687-688	Voice State License	773.293750	803.293750
	805-806	Voice State License	774.031250	804.031250
	807-808	Voice State License	774.043750	804.043750
	845-846	Voice State License	774.281250	804.281250
	847-848	Voice State License	774.293750	804.293750
	925-926	Voice State License	774.781250	804.781250
	927-928	Voice State License	774.793750	804.793750
Menard	169-170	Voice General Use	770.056250	800.056250
	171-172	Voice General Use	770.068750	800.068750
	365-366	Voice General Use	771.281250	801.281250
	367-368	Voice General Use	771.293750	801.293750
	409-410	Voice General Use	771.556250	801.556250
	411-412	Voice General Use	771.568750	801.568750
	489-490	Voice General Use	772.056250	802.056250
	491-492	Voice General Use	772.068750	802.068750
	533-534	Voice General Use	772.331250	802.331250
	535-536	Voice General Use	772.343750	802.343750
	629-630	Voice General Use	772.931250	802.931250
	631-632	Voice General Use	772.943750	802.943750
	917-918	Voice General Use	774.731250	804.731250
	919-920	Voice General Use	774.743750	804.743750
	153-154	Voice State License	769.956250	799.956250
	155-156	Voice State License	769.968750	799.968750
	193-194	Voice State License	770.206250	800.206250
	195-196	Voice State License	770.218750	800.218750
	725-726	Voice State License	773.531250	803.531250
	727-728	Voice State License	773.543750	803.543750
Midland	17-18	Voice General Use	769.106250	799.106250
	19-20	Voice General Use	769.118750	799.118750
	57-58	Voice General Use	769.356250	799.356250
	59-60	Voice General Use	769.368750	799.368750
	125-126	Voice General Use	769.781250	799.781250
	127-128	Voice General Use	769.793750	799.793750
	201-202	Voice General Use	770.256250	800.256250
	203-204	Voice General Use	770.268750	800.268750
	257-258	Voice General Use	770.606250	800.606250
	259-260	Voice General Use	770.618750	800.618750
	297-298	Voice General Use	770.856250	800.856250
	299-300	Voice General Use	770.868750	800.868750
	357-358	Voice General Use	771.231250	801.231250
	359-360	Voice General Use	771.243750	801.243750
	397-398	Voice General Use	771.481250	801.481250
	399-400	Voice General Use	771.493750	801.493750
	437-438	Voice General Use	771.731250	801.731250
	439-440	Voice General Use	771.743750	801.743750
	477-478	Voice General Use	771.981250	801.981250
	479-480	Voice General Use	771.993750	801.993750
	517-518	Voice General Use	772.231250	802.231250
	519-520	Voice General Use	772.243750	802.243750
	577-578	Voice General Use	772.606250	802.606250
	579-580	Voice General Use	772.618750	802.618750
	629-630	Voice General Use	772.931250	802.931250
	631-632	Voice General Use	772.943750	802.943750
	705-706	Voice General Use	773.406250	803.406250
	707-708	Voice General Use	773.418750	803.418750
	789-790	Voice General Use	773.931250	803.931250
	791-792	Voice General Use	773.943750	803.943750
	865-866	Voice General Use	774.406250	804.406250

	867-868	Voice General Use	774.418750	804.418750
	905-906	Voice General Use	774.656250	804.656250
	907-908	Voice General Use	774.668750	804.668750
	945-946	Voice General Use	774.906250	804.906250
	947-948	Voice General Use	774.918750	804.918750
	65-66	Voice State License	769.406250	799.406250
	67-68	Voice State License	769.418750	799.418750
	105-106	Voice State License	769.656250	799.656250
	107-108	Voice State License	769.668750	799.668750
	185-186	Voice State License	770.156250	800.156250
	187-188	Voice State License	770.168750	800.168750
	225-226	Voice State License	770.406250	800.406250
	227-228	Voice State License	770.418750	800.418750
	305-306	Voice State License	770.906250	800.906250
	307-308	Voice State License	770.918750	800.918750
	685-686	Voice State License	773.281250	803.281250
	687-688	Voice State License	773.293750	803.293750
	733-734	Voice State License	773.581250	803.581250
	735-736	Voice State License	773.593750	803.593750
	805-806	Voice State License	774.031250	804.031250
	807-808	Voice State License	774.043750	804.043750
	845-846	Voice State License	774.281250	804.281250
	847-848	Voice State License	774.293750	804.293750
	885-886	Voice State License	774.531250	804.531250
	887-888	Voice State License	774.543750	804.543750
	925-926	Voice State License	774.781250	804.781250
	927-928	Voice State License	774.793750	804.793750
Mitchell	281-282	Voice General Use	770.756250	800.756250
	283-284	Voice General Use	770.768750	800.768750
	361-362	Voice General Use	771.256250	801.256250
	363-364	Voice General Use	771.268750	801.268750
	429-430	Voice General Use	771.681250	801.681250
	431-432	Voice General Use	771.693750	801.693750
	481-482	Voice General Use	772.006250	802.006250
	483-484	Voice General Use	772.018750	802.018750
	521-522	Voice General Use	772.256250	802.256250
	523-524	Voice General Use	772.268750	802.268750
	581-582	Voice General Use	772.631250	802.631250
	583-584	Voice General Use	772.643750	802.643750
	633-634	Voice General Use	772.956250	802.956250
	635-636	Voice General Use	772.968750	802.968750
	757-758	Voice General Use	773.731250	803.731250
	759-760	Voice General Use	773.743750	803.743750
	797-798	Voice General Use	773.981250	803.981250
	799-800	Voice General Use	773.993750	803.993750
	273-274	Voice State License	770.706250	800.706250
	275-276	Voice State License	770.718750	800.718750
	653-654	Voice State License	773.081250	803.081250
	655-656	Voice State License	773.093750	803.093750
Nolan	17-18	Voice General Use	769.106250	799.106250
	19-20	Voice General Use	769.118750	799.118750
	125-126	Voice General Use	769.781250	799.781250
	127-128	Voice General Use	769.793750	799.793750
	213-214	Voice General Use	770.331250	800.331250
	215-216	Voice General Use	770.343750	800.343750
	293-294	Voice General Use	770.831250	800.831250
	295-296	Voice General Use	770.843750	800.843750
	337-338	Voice General Use	771.106250	801.106250
	339-340	Voice General Use	771.118750	801.118750
	377-378	Voice General Use	771.356250	801.356250
	379-380	Voice General Use	771.368750	801.368750
	437-438	Voice General Use	771.731250	801.731250
	439-440	Voice General Use	771.743750	801.743750
	533-534	Voice General Use	772.331250	802.331250
	535-536	Voice General Use	772.343750	802.343750
	573-574	Voice General Use	772.581250	802.581250
	575-576	Voice General Use	772.593750	802.593750
	613-614	Voice General Use	772.831250	802.831250
	615-616	Voice General Use	772.843750	802.843750
	745-746	Voice General Use	773.656250	803.656250

	747-748	Voice General Use	773.668750	803.668750
	829-830	Voice General Use	774.181250	804.181250
	831-832	Voice General Use	774.193750	804.193750
	233-234	Voice State License	770.456250	800.456250
	235-236	Voice State License	770.468750	800.468750
	313-314	Voice State License	770.956250	800.956250
	315-316	Voice State License	770.968750	800.968750
	765-766	Voice State License	773.781250	803.781250
	767-768	Voice State License	773.793750	803.793750
	845-846	Voice State License	774.281250	804.281250
	847-848	Voice State License	774.293750	804.293750
Pecos	41-42	Voice General Use	769.256250	799.256250
	43-44	Voice General Use	769.268750	799.268750
	81-82	Voice General Use	769.506250	799.506250
	83-84	Voice General Use	769.518750	799.518750
	121-122	Voice General Use	769.756250	799.756250
	123-124	Voice General Use	769.768750	799.768750
	165-166	Voice General Use	770.031250	800.031250
	167-168	Voice General Use	770.043750	800.043750
	205-206	Voice General Use	770.281250	800.281250
	207-208	Voice General Use	770.293750	800.293750
	285-286	Voice General Use	770.781250	800.781250
	287-288	Voice General Use	770.793750	800.793750
	341-342	Voice General Use	771.131250	801.131250
	343-344	Voice General Use	771.143750	801.143750
	381-382	Voice General Use	771.381250	801.381250
	383-384	Voice General Use	771.393750	801.393750
	441-442	Voice General Use	771.756250	801.756250
	443-444	Voice General Use	771.768750	801.768750
	509-510	Voice General Use	772.181250	802.181250
	511-512	Voice General Use	772.193750	802.193750
	553-554	Voice General Use	772.456250	802.456250
	555-556	Voice General Use	772.468750	802.468750
	605-606	Voice General Use	772.781250	802.781250
	607-608	Voice General Use	772.793750	802.793750
	661-662	Voice General Use	773.131250	803.131250
	663-664	Voice General Use	773.143750	803.143750
	709-710	Voice General Use	773.431250	803.431250
	711-712	Voice General Use	773.443750	803.443750
	781-782	Voice General Use	773.881250	803.881250
	783-784	Voice General Use	773.893750	803.893750
	833-834	Voice General Use	774.206250	804.206250
	835-836	Voice General Use	774.218750	804.218750
	873-874	Voice General Use	774.456250	804.456250
	875-876	Voice General Use	774.468750	804.468750
	941-942	Voice General Use	774.881250	804.881250
	943-944	Voice General Use	774.893750	804.893750
	73-74	Voice State License	769.456250	799.456250
	75-76	Voice State License	769.468750	799.468750
	145-146	Voice State License	769.906250	799.906250
	147-148	Voice State License	769.918750	799.918750
	649-650	Voice State License	773.056250	803.056250
	651-652	Voice State License	773.068750	803.068750
	689-690	Voice State License	773.306250	803.306250
	691-692	Voice State License	773.318750	803.318750
	809-810	Voice State License	774.056250	804.056250
	811-812	Voice State License	774.068750	804.068750
	889-890	Voice State License	774.556250	804.556250
	891-892	Voice State License	774.568750	804.568750
Presidio	49-50	Voice General Use	769.306250	799.306250
	51-52	Voice General Use	769.318750	799.318750
	161-162	Voice General Use	770.006250	800.006250
	163-164	Voice General Use	770.018750	800.018750
	201-202	Voice General Use	770.256250	800.256250
	203-204	Voice General Use	770.268750	800.268750
	281-282	Voice General Use	770.756250	800.756250
	283-284	Voice General Use	770.768750	800.768750
	337-338	Voice General Use	771.106250	801.106250
	339-340	Voice General Use	771.118750	801.118750
	377-378	Voice General Use	771.356250	801.356250

	379-380	Voice General Use	771.368750	801.368750
	421-422	Voice General Use	771.631250	801.631250
	423-424	Voice General Use	771.643750	801.643750
	477-478	Voice General Use	771.981250	801.981250
	479-480	Voice General Use	771.993750	801.993750
	517-518	Voice General Use	772.231250	802.231250
	519-520	Voice General Use	772.243750	802.243750
	557-558	Voice General Use	772.481250	802.481250
	559-560	Voice General Use	772.493750	802.493750
	597-598	Voice General Use	772.731250	802.731250
	599-600	Voice General Use	772.743750	802.743750
	637-638	Voice General Use	772.981250	802.981250
	639-640	Voice General Use	772.993750	802.993750
	705-706	Voice General Use	773.406250	803.406250
	707-708	Voice General Use	773.418750	803.418750
	745-746	Voice General Use	773.656250	803.656250
	747-748	Voice General Use	773.668750	803.668750
	785-786	Voice General Use	773.906250	803.906250
	787-788	Voice General Use	773.918750	803.918750
	837-838	Voice General Use	774.231250	804.231250
	839-840	Voice General Use	774.243750	804.243750
	905-906	Voice General Use	774.656250	804.656250
	907-908	Voice General Use	774.668750	804.668750
	945-946	Voice General Use	774.906250	804.906250
	947-948	Voice General Use	774.918750	804.918750
	25-26	Voice State License	769.156250	799.156250
	27-28	Voice State License	769.168750	799.168750
	149-150	Voice State License	769.931250	799.931250
	151-152	Voice State License	769.943750	799.943750
	225-226	Voice State License	770.406250	800.406250
	227-228	Voice State License	770.418750	800.418750
	269-270	Voice State License	770.681250	800.681250
	271-272	Voice State License	770.693750	800.693750
	313-314	Voice State License	770.956250	800.956250
	315-316	Voice State License	770.968750	800.968750
	645-646	Voice State License	773.031250	803.031250
	647-648	Voice State License	773.043750	803.043750
	685-686	Voice State License	773.281250	803.281250
	687-688	Voice State License	773.293750	803.293750
	805-806	Voice State License	774.031250	804.031250
	807-808	Voice State License	774.043750	804.043750
	845-846	Voice State License	774.281250	804.281250
	847-848	Voice State License	774.293750	804.293750
	885-886	Voice State License	774.531250	804.531250
	887-888	Voice State License	774.543750	804.543750
	925-926	Voice State License	774.781250	804.781250
	927-928	Voice State License	774.793750	804.793750
Reagan	85-86	Voice General Use	769.531250	799.531250
	87-88	Voice General Use	769.543750	799.543750
	161-162	Voice General Use	770.006250	800.006250
	163-164	Voice General Use	770.018750	800.018750
	213-214	Voice General Use	770.331250	800.331250
	215-216	Voice General Use	770.343750	800.343750
	333-334	Voice General Use	771.081250	801.081250
	335-336	Voice General Use	771.093750	801.093750
	389-390	Voice General Use	771.431250	801.431250
	391-392	Voice General Use	771.443750	801.443750
	465-466	Voice General Use	771.906250	801.906250
	467-468	Voice General Use	771.918750	801.918750
	533-534	Voice General Use	772.331250	802.331250
	535-536	Voice General Use	772.343750	802.343750
	589-590	Voice General Use	772.681250	802.681250
	591-592	Voice General Use	772.693750	802.693750
	749-750	Voice General Use	773.681250	803.681250
	751-752	Voice General Use	773.693750	803.693750
	153-154	Voice State License	769.956250	799.956250
	155-156	Voice State License	769.968750	799.968750
	765-766	Voice State License	773.781250	803.781250
	767-768	Voice State License	773.793750	803.793750
Reeves	13-14	Voice General Use	769.081250	799.081250

	15-16	Voice General Use	769.093750	799.093750
	89-90	Voice General Use	769.556250	799.556250
	91-92	Voice General Use	769.568750	799.568750
	129-130	Voice General Use	769.806250	799.806250
	131-132	Voice General Use	769.818750	799.818750
	241-242	Voice General Use	770.506250	800.506250
	243-244	Voice General Use	770.518750	800.518750
	321-322	Voice General Use	771.006250	801.006250
	323-324	Voice General Use	771.018750	801.018750
	389-390	Voice General Use	771.431250	801.431250
	391-392	Voice General Use	771.443750	801.443750
	429-430	Voice General Use	771.681250	801.681250
	431-432	Voice General Use	771.693750	801.693750
	473-474	Voice General Use	771.956250	801.956250
	475-476	Voice General Use	771.968750	801.968750
	533-534	Voice General Use	772.331250	802.331250
	535-536	Voice General Use	772.343750	802.343750
	577-578	Voice General Use	772.606250	802.606250
	579-580	Voice General Use	772.618750	802.618750
	629-630	Voice General Use	772.931250	802.931250
	631-632	Voice General Use	772.943750	802.943750
	669-670	Voice General Use	773.181250	803.181250
	671-672	Voice General Use	773.193750	803.193750
	789-790	Voice General Use	773.931250	803.931250
	791-792	Voice General Use	773.943750	803.943750
	865-866	Voice General Use	774.406250	804.406250
	867-868	Voice General Use	774.418750	804.418750
	913-914	Voice General Use	774.706250	804.706250
	915-916	Voice General Use	774.718750	804.718750
	65-66	Voice State License	769.406250	799.406250
	67-68	Voice State License	769.418750	799.418750
	153-154	Voice State License	769.956250	799.956250
	155-156	Voice State License	769.968750	799.968750
	273-274	Voice State License	770.706250	800.706250
	275-276	Voice State License	770.718750	800.718750
	765-766	Voice State License	773.781250	803.781250
	767-768	Voice State License	773.793750	803.793750
Runnels	89-90	Voice General Use	769.556250	799.556250
	91-92	Voice General Use	769.568750	799.568750
	165-166	Voice General Use	770.031250	800.031250
	167-168	Voice General Use	770.043750	800.043750
	357-358	Voice General Use	771.231250	801.231250
	359-360	Voice General Use	771.243750	801.243750
	397-398	Voice General Use	771.481250	801.481250
	399-400	Voice General Use	771.493750	801.493750
	453-454	Voice General Use	771.831250	801.831250
	455-456	Voice General Use	771.843750	801.843750
	493-494	Voice General Use	772.081250	802.081250
	495-496	Voice General Use	772.093750	802.093750
	637-638	Voice General Use	772.981250	802.981250
	639-640	Voice General Use	772.993750	802.993750
	793-794	Voice General Use	773.956250	803.956250
	795-796	Voice General Use	773.968750	803.968750
	913-914	Voice General Use	774.706250	804.706250
	915-916	Voice General Use	774.718750	804.718750
	33-34	Voice State License	769.206250	799.206250
	35-36	Voice State License	769.218750	799.218750
	149-150	Voice State License	769.931250	799.931250
	151-152	Voice State License	769.943750	799.943750
	189-190	Voice State License	770.181250	800.181250
	191-192	Voice State License	770.193750	800.193750
Schleicher	81-82	Voice General Use	769.506250	799.506250
	83-84	Voice General Use	769.518750	799.518750
	201-202	Voice General Use	770.256250	800.256250
	203-204	Voice General Use	770.268750	800.268750
	349-350	Voice General Use	771.181250	801.181250
	351-352	Voice General Use	771.193750	801.193750
	401-402	Voice General Use	771.506250	801.506250
	403-404	Voice General Use	771.518750	801.518750
	449-450	Voice General Use	771.806250	801.806250

	451-452	Voice General Use	771.818750	801.818750
	509-510	Voice General Use	772.181250	802.181250
	511-512	Voice General Use	772.193750	802.193750
	577-578	Voice General Use	772.606250	802.606250
	579-580	Voice General Use	772.618750	802.618750
	797-798	Voice General Use	773.981250	803.981250
	799-800	Voice General Use	773.993750	803.993750
	105-106	Voice State License	769.656250	799.656250
	107-108	Voice State License	769.668750	799.668750
Scurry	89-90	Voice General Use	769.556250	799.556250
	91-92	Voice General Use	769.568750	799.568750
	137-138	Voice General Use	769.856250	799.856250
	139-140	Voice General Use	769.868750	799.868750
	177-178	Voice General Use	770.106250	800.106250
	179-180	Voice General Use	770.118750	800.118750
	257-258	Voice General Use	770.606250	800.606250
	259-260	Voice General Use	770.618750	800.618750
	345-346	Voice General Use	771.156250	801.156250
	347-348	Voice General Use	771.168750	801.168750
	413-414	Voice General Use	771.581250	801.581250
	415-416	Voice General Use	771.593750	801.593750
	501-502	Voice General Use	772.131250	802.131250
	503-504	Voice General Use	772.143750	802.143750
	541-542	Voice General Use	772.381250	802.381250
	543-544	Voice General Use	772.393750	802.393750
	597-598	Voice General Use	772.731250	802.731250
	599-600	Voice General Use	772.743750	802.743750
	661-662	Voice General Use	773.131250	803.131250
	663-664	Voice General Use	773.143750	803.143750
	701-702	Voice General Use	773.381250	803.381250
	703-704	Voice General Use	773.393750	803.393750
	821-822	Voice General Use	774.131250	804.131250
	823-824	Voice General Use	774.143750	804.143750
	69-70	Voice State License	769.431250	799.431250
	71-72	Voice State License	769.443750	799.443750
	689-690	Voice State License	773.306250	803.306250
	691-692	Voice State License	773.318750	803.318750
	809-810	Voice State License	774.056250	804.056250
	811-812	Voice State License	774.068750	804.068750
	929-930	Voice State License	774.806250	804.806250
	931-932	Voice State License	774.818750	804.818750
Shackelford	121-122	Voice General Use	769.756250	799.756250
	123-124	Voice General Use	769.768750	799.768750
	389-390	Voice General Use	771.431250	801.431250
	391-392	Voice General Use	771.443750	801.443750
	449-450	Voice General Use	771.806250	801.806250
	451-452	Voice General Use	771.818750	801.818750
	525-526	Voice General Use	772.281250	802.281250
	527-528	Voice General Use	772.293750	802.293750
	565-566	Voice General Use	772.531250	802.531250
	567-568	Voice General Use	772.543750	802.543750
	825-826	Voice General Use	774.156250	804.156250
	827-828	Voice General Use	774.168750	804.168750
	733-734	Voice State License	773.581250	803.581250
	735-736	Voice State License	773.593750	803.593750
Stephens	137-138	Voice General Use	769.856250	799.856250
	139-140	Voice General Use	769.868750	799.868750
	333-334	Voice General Use	771.081250	801.081250
	335-336	Voice General Use	771.093750	801.093750
	373-374	Voice General Use	771.331250	801.331250
	375-376	Voice General Use	771.343750	801.343750
	417-418	Voice General Use	771.606250	801.606250
	419-420	Voice General Use	771.618750	801.618750
	457-458	Voice General Use	771.856250	801.856250
	459-460	Voice General Use	771.868750	801.868750
	533-534	Voice General Use	772.331250	802.331250
	535-536	Voice General Use	772.343750	802.343750
	573-574	Voice General Use	772.581250	802.581250

	575-576	Voice General Use	772.593750	802.593750
	613-614	Voice General Use	772.831250	802.831250
	615-616	Voice General Use	772.843750	802.843750
	673-674	Voice General Use	773.206250	803.206250
	675-676	Voice General Use	773.218750	803.218750
	713-714	Voice General Use	773.456250	803.456250
	715-716	Voice General Use	773.468750	803.468750
	33-34	Voice State License	769.206250	799.206250
	35-36	Voice State License	769.218750	799.218750
	189-190	Voice State License	770.181250	800.181250
	191-192	Voice State License	770.193750	800.193750
	313-314	Voice State License	770.956250	800.956250
	315-316	Voice State License	770.968750	800.968750
Sterling	41-42	Voice General Use	769.256250	799.256250
	43-44	Voice General Use	769.268750	799.268750
	129-130	Voice General Use	769.806250	799.806250
	131-132	Voice General Use	769.818750	799.818750
	289-290	Voice General Use	770.806250	800.806250
	291-292	Voice General Use	770.818750	800.818750
	353-354	Voice General Use	771.206250	801.206250
	355-356	Voice General Use	771.218750	801.218750
	405-406	Voice General Use	771.531250	801.531250
	407-408	Voice General Use	771.543750	801.543750
	489-490	Voice General Use	772.056250	802.056250
	491-492	Voice General Use	772.068750	802.068750
	609-610	Voice General Use	772.806250	802.806250
	611-612	Voice General Use	772.818750	802.818750
	709-710	Voice General Use	773.431250	803.431250
	711-712	Voice General Use	773.443750	803.443750
	193-194	Voice State License	770.206250	800.206250
	195-196	Voice State License	770.218750	800.218750
Stonewall	241-242	Voice General Use	770.506250	800.506250
	243-244	Voice General Use	770.518750	800.518750
	321-322	Voice General Use	771.006250	801.006250
	323-324	Voice General Use	771.018750	801.018750
	365-366	Voice General Use	771.281250	801.281250
	367-368	Voice General Use	771.293750	801.293750
	417-418	Voice General Use	771.606250	801.606250
	419-420	Voice General Use	771.618750	801.618750
	489-490	Voice General Use	772.056250	802.056250
	491-492	Voice General Use	772.068750	802.068750
	537-538	Voice General Use	772.356250	802.356250
	539-540	Voice General Use	772.368750	802.368750
	577-578	Voice General Use	772.606250	802.606250
	579-580	Voice General Use	772.618750	802.618750
	849-850	Voice State License	774.306250	804.306250
	851-852	Voice State License	774.318750	804.318750
	889-890	Voice State License	774.556250	804.556250
	891-892	Voice State License	774.568750	804.568750
Sutton	57-58	Voice General Use	769.356250	799.356250
	59-60	Voice General Use	769.368750	799.368750
	245-246	Voice General Use	770.531250	800.531250
	247-248	Voice General Use	770.543750	800.543750
	285-286	Voice General Use	770.781250	800.781250
	287-288	Voice General Use	770.793750	800.793750
	329-330	Voice General Use	771.056250	801.056250
	331-332	Voice General Use	771.068750	801.068750
	377-378	Voice General Use	771.356250	801.356250
	379-380	Voice General Use	771.368750	801.368750
	421-422	Voice General Use	771.631250	801.631250
	423-424	Voice General Use	771.643750	801.643750
	461-462	Voice General Use	771.881250	801.881250
	463-464	Voice General Use	771.893750	801.893750
	593-594	Voice General Use	772.706250	802.706250
	595-596	Voice General Use	772.718750	802.718750
	709-710	Voice General Use	773.431250	803.431250
	711-712	Voice General Use	773.443750	803.443750
	789-790	Voice General Use	773.931250	803.931250

	791-792	Voice General Use	773.943750	803.943750
	869-870	Voice General Use	774.431250	804.431250
	871-872	Voice General Use	774.443750	804.443750
	65-66	Voice State License	769.406250	799.406250
	67-68	Voice State License	769.418750	799.418750
	305-306	Voice State License	770.906250	800.906250
	307-308	Voice State License	770.918750	800.918750
	653-654	Voice State License	773.081250	803.081250
	655-656	Voice State License	773.093750	803.093750
	693-694	Voice State License	773.331250	803.331250
	695-696	Voice State License	773.343750	803.343750
	773-774	Voice State License	773.831250	803.831250
	775-776	Voice State License	773.843750	803.843750
	813-814	Voice State License	774.081250	804.081250
	815-816	Voice State License	774.093750	804.093750
	853-854	Voice State License	774.331250	804.331250
	855-856	Voice State License	774.343750	804.343750
	893-894	Voice State License	774.581250	804.581250
	895-896	Voice State License	774.593750	804.593750
	933-934	Voice State License	774.831250	804.831250
	935-936	Voice State License	774.843750	804.843750
Taylor	41-42	Voice General Use	769.256250	799.256250
	43-44	Voice General Use	769.268750	799.268750
	81-82	Voice General Use	769.506250	799.506250
	83-84	Voice General Use	769.518750	799.518750
	133-134	Voice General Use	769.831250	799.831250
	135-136	Voice General Use	769.843750	799.843750
	173-174	Voice General Use	770.081250	800.081250
	175-176	Voice General Use	770.093750	800.093750
	245-246	Voice General Use	770.531250	800.531250
	247-248	Voice General Use	770.543750	800.543750
	285-286	Voice General Use	770.781250	800.781250
	287-288	Voice General Use	770.793750	800.793750
	325-326	Voice General Use	771.031250	801.031250
	327-328	Voice General Use	771.043750	801.043750
	369-370	Voice General Use	771.306250	801.306250
	371-372	Voice General Use	771.318750	801.318750
	421-422	Voice General Use	771.631250	801.631250
	423-424	Voice General Use	771.643750	801.643750
	461-462	Voice General Use	771.881250	801.881250
	463-464	Voice General Use	771.893750	801.893750
	517-518	Voice General Use	772.231250	802.231250
	519-520	Voice General Use	772.243750	802.243750
	557-558	Voice General Use	772.481250	802.481250
	559-560	Voice General Use	772.493750	802.493750
	629-630	Voice General Use	772.931250	802.931250
	631-632	Voice General Use	772.943750	802.943750
	669-670	Voice General Use	773.181250	803.181250
	671-672	Voice General Use	773.193750	803.193750
	709-710	Voice General Use	773.431250	803.431250
	711-712	Voice General Use	773.443750	803.443750
	753-754	Voice General Use	773.706250	803.706250
	755-756	Voice General Use	773.718750	803.718750
	865-866	Voice General Use	774.406250	804.406250
	867-868	Voice General Use	774.418750	804.418750
	905-906	Voice General Use	774.656250	804.656250
	907-908	Voice General Use	774.668750	804.668750
	945-946	Voice General Use	774.906250	804.906250
	947-948	Voice General Use	774.918750	804.918750
	65-66	Voice State License	769.406250	799.406250
	67-68	Voice State License	769.418750	799.418750
	113-114	Voice State License	769.706250	799.706250
	115-116	Voice State License	769.718750	799.718750
	225-226	Voice State License	770.406250	800.406250
	227-228	Voice State License	770.418750	800.418750
	265-266	Voice State License	770.656250	800.656250
	267-268	Voice State License	770.668750	800.668750
	305-306	Voice State License	770.906250	800.906250
	307-308	Voice State License	770.918750	800.918750
	645-646	Voice State License	773.031250	803.031250
	647-648	Voice State License	773.043750	803.043750

	685-686	Voice State License	773.281250	803.281250
	687-688	Voice State License	773.293750	803.293750
	725-726	Voice State License	773.531250	803.531250
	727-728	Voice State License	773.543750	803.543750
	805-806	Voice State License	774.031250	804.031250
	807-808	Voice State License	774.043750	804.043750
	853-854	Voice State License	774.331250	804.331250
	855-856	Voice State License	774.343750	804.343750
	893-894	Voice State License	774.581250	804.581250
	895-896	Voice State License	774.593750	804.593750
	933-934	Voice State License	774.831250	804.831250
	935-936	Voice State License	774.843750	804.843750
Terrell	241-242	Voice General Use	770.506250	800.506250
	243-244	Voice General Use	770.518750	800.518750
	353-354	Voice General Use	771.206250	801.206250
	355-356	Voice General Use	771.218750	801.218750
	421-422	Voice General Use	771.631250	801.631250
	423-424	Voice General Use	771.643750	801.643750
	477-478	Voice General Use	771.981250	801.981250
	479-480	Voice General Use	771.993750	801.993750
	517-518	Voice General Use	772.231250	802.231250
	519-520	Voice General Use	772.243750	802.243750
	577-578	Voice General Use	772.606250	802.606250
	579-580	Voice General Use	772.618750	802.618750
	637-638	Voice General Use	772.981250	802.981250
	639-640	Voice General Use	772.993750	802.993750
	701-702	Voice General Use	773.381250	803.381250
	703-704	Voice General Use	773.393750	803.393750
	745-746	Voice General Use	773.656250	803.656250
	747-748	Voice General Use	773.668750	803.668750
	797-798	Voice General Use	773.981250	803.981250
	799-800	Voice General Use	773.993750	803.993750
	65-66	Voice State License	769.406250	799.406250
	67-68	Voice State License	769.418750	799.418750
	225-226	Voice State License	770.406250	800.406250
	227-228	Voice State License	770.418750	800.418750
	773-774	Voice State License	773.831250	803.831250
	775-776	Voice State License	773.843750	803.843750
Throckmorton	397-398	Voice General Use	771.481250	801.481250
	399-400	Voice General Use	771.493750	801.493750
	513-514	Voice General Use	772.206250	802.206250
	515-516	Voice General Use	772.218750	802.218750
	705-706	Voice General Use	773.406250	803.406250
	707-708	Voice General Use	773.418750	803.418750
	789-790	Voice General Use	773.931250	803.931250
	791-792	Voice General Use	773.943750	803.943750
	941-942	Voice General Use	774.881250	804.881250
	943-944	Voice General Use	774.893750	804.893750
	269-270	Voice State License	770.681250	800.681250
	271-272	Voice State License	770.693750	800.693750
	813-814	Voice State License	774.081250	804.081250
	815-816	Voice State License	774.093750	804.093750
Tom Green	13-14	Voice General Use	769.081250	799.081250
	15-16	Voice General Use	769.093750	799.093750
	53-54	Voice General Use	769.331250	799.331250
	55-56	Voice General Use	769.343750	799.343750
	121-122	Voice General Use	769.756250	799.756250
	123-124	Voice General Use	769.768750	799.768750
	177-178	Voice General Use	770.106250	800.106250
	179-180	Voice General Use	770.118750	800.118750
	253-254	Voice General Use	770.581250	800.581250
	255-256	Voice General Use	770.593750	800.593750
	321-322	Voice General Use	771.006250	801.006250
	323-324	Voice General Use	771.018750	801.018750
	373-374	Voice General Use	771.331250	801.331250
	375-376	Voice General Use	771.343750	801.343750
	417-418	Voice General Use	771.606250	801.606250
	419-420	Voice General Use	771.618750	801.618750
	473-474	Voice General Use	771.956250	801.956250

	475-476	Voice General Use	771.968750	801.968750
	545-546	Voice General Use	772.406250	802.406250
	547-548	Voice General Use	772.418750	802.418750
	597-598	Voice General Use	772.731250	802.731250
	599-600	Voice General Use	772.743750	802.743750
	661-662	Voice General Use	773.131250	803.131250
	663-664	Voice General Use	773.143750	803.143750
	701-702	Voice General Use	773.381250	803.381250
	703-704	Voice General Use	773.393750	803.393750
	741-742	Voice General Use	773.631250	803.631250
	743-744	Voice General Use	773.643750	803.643750
	781-782	Voice General Use	773.881250	803.881250
	783-784	Voice General Use	773.893750	803.893750
	821-822	Voice General Use	774.131250	804.131250
	823-824	Voice General Use	774.143750	804.143750
	861-862	Voice General Use	774.381250	804.381250
	863-864	Voice General Use	774.393750	804.393750
	901-902	Voice General Use	774.631250	804.631250
	903-904	Voice General Use	774.643750	804.643750
	941-942	Voice General Use	774.881250	804.881250
	943-944	Voice General Use	774.893750	804.893750
	25-26	Voice State License	769.156250	799.156250
	27-28	Voice State License	769.168750	799.168750
	69-70	Voice State License	769.431250	799.431250
	71-72	Voice State License	769.443750	799.443750
	229-230	Voice State License	770.431250	800.431250
	231-232	Voice State License	770.443750	800.443750
	269-270	Voice State License	770.681250	800.681250
	271-272	Voice State License	770.693750	800.693750
	309-310	Voice State License	770.931250	800.931250
	311-312	Voice State License	770.943750	800.943750
	649-650	Voice State License	773.056250	803.056250
	651-652	Voice State License	773.068750	803.068750
	689-690	Voice State License	773.306250	803.306250
	691-692	Voice State License	773.318750	803.318750
	809-810	Voice State License	774.056250	804.056250
	811-812	Voice State License	774.068750	804.068750
	849-850	Voice State License	774.306250	804.306250
	851-852	Voice State License	774.318750	804.318750
	889-890	Voice State License	774.556250	804.556250
	891-892	Voice State License	774.568750	804.568750
	929-930	Voice State License	774.806250	804.806250
	931-932	Voice State License	774.818750	804.818750
Upton	409-410	Voice General Use	771.556250	801.556250
	411-412	Voice General Use	771.568750	801.568750
	453-454	Voice General Use	771.831250	801.831250
	455-456	Voice General Use	771.843750	801.843750
	493-494	Voice General Use	772.081250	802.081250
	495-496	Voice General Use	772.093750	802.093750
	561-562	Voice General Use	772.506250	802.506250
	563-564	Voice General Use	772.518750	802.518750
	613-614	Voice General Use	772.831250	802.831250
	615-616	Voice General Use	772.843750	802.843750
	825-826	Voice General Use	774.156250	804.156250
	827-828	Voice General Use	774.168750	804.168750
	29-30	Voice State License	769.181250	799.181250
	31-32	Voice State License	769.193750	799.193750
	725-726	Voice State License	773.531250	803.531250
	727-728	Voice State License	773.543750	803.543750
Ward	53-54	Voice General Use	769.331250	799.331250
	55-56	Voice General Use	769.343750	799.343750
	253-254	Voice General Use	770.581250	800.581250
	255-256	Voice General Use	770.593750	800.593750
	361-362	Voice General Use	771.256250	801.256250
	363-364	Voice General Use	771.268750	801.268750
	401-402	Voice General Use	771.506250	801.506250
	403-404	Voice General Use	771.518750	801.518750
	449-450	Voice General Use	771.806250	801.806250
	451-452	Voice General Use	771.818750	801.818750
	521-522	Voice General Use	772.256250	802.256250

	523-524	Voice General Use	772.268750	802.268750
	589-590	Voice General Use	772.681250	802.681250
	591-592	Voice General Use	772.693750	802.693750
	637-638	Voice General Use	772.981250	802.981250
	639-640	Voice General Use	772.993750	802.993750
	745-746	Voice General Use	773.656250	803.656250
	747-748	Voice General Use	773.668750	803.668750
	821-822	Voice General Use	774.131250	804.131250
	823-824	Voice General Use	774.143750	804.143750
	33-34	Voice State License	769.206250	799.206250
	35-36	Voice State License	769.218750	799.218750
	229-230	Voice State License	770.431250	800.431250
	231-232	Voice State License	770.443750	800.443750
	729-730	Voice State License	773.556250	803.556250
	731-732	Voice State License	773.568750	803.568750
Winkler	169-170	Voice General Use	770.056250	800.056250
	171-172	Voice General Use	770.068750	800.068750
	209-210	Voice General Use	770.306250	800.306250
	211-212	Voice General Use	770.318750	800.318750
	337-338	Voice General Use	771.106250	801.106250
	339-340	Voice General Use	771.118750	801.118750
	385-386	Voice General Use	771.406250	801.406250
	387-388	Voice General Use	771.418750	801.418750
	513-514	Voice General Use	772.206250	802.206250
	515-516	Voice General Use	772.218750	802.218750
	581-582	Voice General Use	772.631250	802.631250
	583-584	Voice General Use	772.643750	802.643750
	625-626	Voice General Use	772.906250	802.906250
	627-628	Voice General Use	772.918750	802.918750
	869-870	Voice General Use	774.431250	804.431250
	871-872	Voice General Use	774.443750	804.443750
	25-26	Voice State License	769.156250	799.156250
	27-28	Voice State License	769.168750	799.168750
	69-70	Voice State License	769.431250	799.431250
	71-72	Voice State License	769.443750	799.443750
	645-646	Voice State License	773.031250	803.031250
	647-648	Voice State License	773.043750	803.043750

Region 50 700MHz Plan

Appendix G - Inter-Regional Coordination Procedures and Procedures for Resolution of Disputes That May Arise Under FCC Approved Plans (Plan unsigned copy)

Note: This form will require original signatures from the designated regions, assuring agreement confirmation of these procedures.

I. INTRODUCTION

1. This is a mutually agreed upon Inter-Regional Coordination Procedures Agreement (Agreement) by and between the 700 MHz Regional Planning Committees of

- Region 50 – El Paso area
- Region 29 – New Mexico
- Region 40 – Texas – Dallas area
- Region 49 – Texas, Austin area
- Region 52 – Texas, Lubbock area
- Region 53 – Texas, San Antonio area

whereas AGREEMENT HERETO and confirmed on the _____ day of _____, in the year of _____.

II. INTER-REGIONAL COORDINATION AGREEMENT

2, The following is the specific procedure for Inter-Regional Coordination which has been agreed upon by Regions 50, 29, 40, 49, 52, and 53, and which will be used by the Regions to coordinate with adjacent Regional Planning Committees.

a. An application-filing window is opened or the Region announces that it is prepared to begin accepting applications on a first-come/first-served basis.
b. Applications by eligible entities are accepted.
c. An application-filing window (if this procedure is being used) is closed after appropriate time interval.
d. Intra-Regional review and coordination takes place, including a technical review resulting in assignment of channels.

e. After Intra-Regional review, a copy of those frequency-specific applications requiring adjacent Region approval, including a definition statement of proposed service area, shall then be forwarded to the adjacent Region(s) for review.[1] This information will be sent to the adjacent Regional chairperson(s) using the CAPRAD database.

f. The adjacent Region reviews the application. If the application is approved, a letter of concurrence shall be sent, via the CAPRAD database, to the initiating Regional chairperson within thirty (30) calendar days.

III. DISPUTE RESOLUTION

(1) If the adjacent Region(s) cannot approve the request, the adjacent Region shall document the reasons for partial or non-concurrence, and respond within 10 (ten) calendar days via email. If the applying Region cannot modify the application to satisfy the objections of the adjacent Region then, a working group comprised of representatives of the two Regions shall be convened within thirty (30) calendar days to attempt to resolve the dispute. The working group shall then report its findings within thirty (30) calendar days to the Regional chairpersons email (CAPRAD database). Findings may include, but not be limited to:

i. Unconditional concurrence;

ii. Conditional concurrence contingent upon modification of Applicant's technical parameters; or

iii. Partial or total denial of proposed frequencies due to inability to meet co-channel/adjacent channel interference free protection to existing licensees within the adjacent Region.

(2) If the Inter-Regional Working Group cannot resolve the dispute, then the matter shall be forwarded for evaluation to the appropriate subcommittee of the National Regional Planning Council (NRPC), or any subsequent oversight organization. Each Region involved in the dispute shall include a detailed explanation of its position, including engineering studies and any other technical information deemed relevant. The NRPC will, within thirty (30) calendar days, report its recommendation(s) to the Regional chairpersons via the CAPRAD database. The NRPC's decision may support either of the disputing Regions or it may develop a proposal that it deems mutually advantageous to each disputing Region.

g. Where adjacent Region concurrence has been secured and the channel assignments would result in no change to the Region's currently Commission approved

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[1] If an applicant's proposed service area or interference contour extends into an adjacent Public Safety Region(s), the application must be approved by the affected Region(s). Service area shall normally be defined as the area included within the geographical boundary of the applicant, plus three (3) miles. Interference contour shall normally be defined as a 5 dBu co-channel contour or a 60 dBu adjacent channel contour. Other definitions of service area or interference shall be justified with an accompanying *Memorandum of Understanding (MOU)* or other application documentation between agencies, i.e. mutual aid agreements.

channel assignment matrix, the initiating Region may then advise the applicant(s) that their application may be forwarded to a frequency coordinator for processing and filing with the Commission.

h. Where adjacent Region concurrence has been secured, and the channel assignments would result in a change to the Region's currently Commission approved channel assignment matrix, then the initiating Region shall file with the Commission a *Petition to Amend* their current Regional plan's frequency matrix, reflecting the new channel assignments, with a copy of the *Petition* sent to the adjacent Regional chairperson(s).

i. Upon Commission issuance of an *Order* adopting the amended channel assignment matrix, the initiating Regional chairperson will send a courtesy copy of the *Order* to the adjacent Regional chairperson(s) and may then advise the applicant(s) that they may forward their applications to the frequency coordinator for processing and filing with the Commission.

III. CONCLUSION

3. IN AGREEMENT HERETO, Regions 50, 29, 40, 49, 52, and 53, do hereunto set their signatures the day and year written.

Respectfully,
[All signatories to agreement]

Region 50 _____ Date:_____

Region 29 _____ Date:_____

Region 40 _____ Date:_____

Region 49 _____ Date:_____

Region 52 _____ Date:_____

Region 53 _____ Date:_____

Region 50: 700 MHz Plan

Appendix H – 700 MHz Interoperability Channel Guide

Region 50 will follow the guidelines presented in the most current Texas Statewide Interoperability Channel Plan (TSICP), found at the following website:

http://www.txdps.state.tx.us/LawEnforcementSupport/communications/interop/index.htm
(Texas Statewide Interoperability Channel Plan [TSICP] and MOU)

The Texas Statewide Interoperability Channel Plan for 700 MHz at the time of the Region 50 Plan submission is as follows:

TSICP SPECIFIC GUIDELINES -- 700 MHz Channels

GENERAL CONDITIONS FOR USE OF TEXAS DEPARTMENT OF PUBLIC SAFETY LICENSED INTEROPERABILITY CHANNELS

By executing the MOU associated with this ***Texas Statewide Interoperability Channel Plan***, signatories agree to abide by the following general conditions:

Operational

- Interoperability calling channels and tactical channels should be programmed into all mobile, portable, and temporary base radios operated by signatory agencies and organizations. At a minimum, the channels should be programmed into all radios that can reasonably be expected to be operated by an agency or organization leadership (officers, incident commanders, etc.).

- Use of the interoperability channels shall be limited to their designated purpose of coordination between emergency response agencies, dispatchers, and resources in the field. Such coordination may occur during en route travel, during exercises, or on-incident.

- The interoperability channels are not to be used for routine dispatch operations, but may be used by dispatchers for communications with personnel in the field, in accordance with local and regional policies and procedures. The interoperability tactical channels may be used for day-to-day emergency operations in the absence of higher priority events.

- Use of the interoperability channels shall be prioritized as follows:

    1. Emergency or urgent operation involving imminent danger to life or property;

    2. Disaster or extreme emergency operation requiring extensive interoperability and inter-agency communications;

    3. Special event, generally of a pre-planned nature;

    4. Joint training exercises;

    5. Inter-agency and en route communications in accordance with local and regional policies and procedures; and

    6. Day-to-day tactical communications on scene.

- Use of the interoperability channels for on-incident communications shall be in accordance with an Incident Communications Plan established by the on-scene incident commander. The controlling agency for an incident shall, through its Incident Commander, assign and\or reassign interoperability channels for each operational period as required to support incident operations.

- Radio communications procedures on the interoperability channels must be consistent with the National Incident Management System (NIMS) and Incident Command System (ICS) and shall be implemented, specifically including:

    - Use “plain or commonly understood language” without 10-codes or agency-specific codes/jargon, and

    - Use the calling order "Agency-Unit #, this is Agency-Unit #" calling order, rather than "Unit # to Unit #".

      Example: "Bryan 1605 this is Tyler 2102" or "Incident Command this is DPS 505”

- Interoperability channels may be used only for voice traffic with the exception of specifically-identified data-only channels (see Table 3). Paging, alert tones, and SCADA operations are not permitted on interoperability calling or tactical channels. Mobile data operations may be conducted on 700 MHz channels labeled for data in the tables. User-initiated telephone interconnect, e.g., phone patch, is not permitted on the interoperability channels.

- All mobile and portable radio equipment should employ a time-out timer set to limit transmission duration to a period of no greater than 120 seconds (2 minutes).

- To alleviate confusion, the standard channel names listed in this plan should be used in all equipment to refer to individual channels. Previously used mutual-aid channel designations ("Intercity, VTAC1, etc.), are no longer valid, and should be removed from equipment in the field.

- Radios not capable of displaying alphanumeric channel labels should be placarded to indicate the channel names and their corresponding positions on the radio's channel selector switch.

Co-Channel and Adjacent Channel Interference

The statewide interoperability channels, Continuous Tone Coded Squelch System (CTCSS) tones, and Network Access Codes (NAC) are designated statewide under this plan and thus co-channel interference by/with other simultaneous incidents is possible. Given adequate geographic separation, coordinated co-channel operations at separate incidents and venues may be conducted if effective radiated power (ERP) is limited to the minimum level required to maintain reliable communications at each incident.

Because the FCC has established new narrowband channels within and adjacent to existing wideband channels below 512 MHz, interference to and with these properly-licensed wideband channel users is expected to occur. If interference to the interoperability channels (either wideband or narrowband) from licensed users who are signatory to this plan occurs during an incident, those users should consider their communications to be secondary to emergency interoperability traffic on the interoperability channels.

Co-channel and adjacent channel interference issues during an incident or event must be resolved by the on-scene designated COM-L. The Texas Department of Public Safety should immediately be notified of interference to the interoperability channels in order to assist in resolution of the problem.

Calling Channels

Initial radio contact during travel to or arrival at an emergency incident may be established on an appropriate interoperability calling channel.

- Calling channels designated as VCALL10, UCALL40, 7CALL50, and 8CALL90 are intended to provide for

local and itinerant-user communications with local public safety dispatchers. TXCALL2D is designated as a Calling Channel for State and Federal Aircraft to/from a Base Station. It also will serve as a backup to VCALL10 for other applications. TXCALL1D is designated as a mobile-to-mobile Calling Channel.

Additionally, the calling channels may be used by en route emergency resources seeking to make contact with the Incident Command Post or staging area(s) at a large-scale incident.

- Texas Law 2 monitoring should be augmented by monitoring of the narrowband VHF channel VCALL10. *After January 1, 2013 Texas Law 2 will be simplex, have sub-audible tones, will be labeled as TXCALL2D, and will be narrowband use only. (See Table 1)*
- If a region (or an adjacent region) has UHF users, UHF channel UCALL40 should be continually monitored by appropriate dispatch points within the affected regions.
- If a region, or an adjacent region, has jurisdictions that use 700 MHz band equipment, the channel 7CALL50 should be continually monitored by appropriate dispatch points within the affected regions.
- If a region, or an adjacent region, has 800 MHz band users, the 800 MHz channel 8CALL90 should be continually monitored by appropriate dispatch points within the affected regions.

CTCSS Coded Squelch

Continuous Tone Coded Squelch System (CTCSS) shall be used on the interoperability calling and tactical channels to mask interference, in accordance with the figures and dates listed in this plan.

The CTCSS tone of 156.7 shall be used for all analog operation on interoperability channels.

- All fixed, temporary, mobile and portable analog transmitters will encode 156.7 Hz
- Receivers should be set for carrier squelch operation unless conditions in the area require the use of tone protection to mitigate adjacent channel interference, or interference from inter-modulation products. In these cases receivers shall be set to decode 156.7 Hz.
- Subject to approval from applicable regional planning committees, mobile relay stations that are part of a local, regional or statewide interoperability plan may be equipped with a second receive CTCSS tone to provide local (in cabinet) relay operation, provided:
    - The relay transmitter continues to transmit the CTCSS tone of 156.7 Hz so that all users within range of the station are aware the station is in use; and
    - The relay will accept the CTCSS tone of 156.7 Hz and present the audio accompanying the 156.7 Hz-encoded transmission to either the associated network or a live operator at the appropriate controlling dispatch facility; and
    - The operational configuration of the mobile relay station is published in the applicable regional interoperability resource tracking documents (Texas Statewide Communications Interoperability Plan, regional Interoperable Radio Communication Plan, and/or FCC approved Regional Planning Committee plans) and databases (CAPRAD and/or CASM).

Only the CTCSS tones identified in this channel plan are allowed on the interoperability channels within the state except as noted above. These tones and codes shall not be changed nor others added by an individual agency, communications vendor, or maintenance service provider.

Responding agencies from outside of Texas, and some in-state agencies with legacy equipment, may not have the CTCSS transmit tones installed on analog VHF wideband interoperability channels. All analog mobile, portable, and temporary base VHF wideband radio receivers shall have the ability to operate in a carrier squelch (monitor) mode.

Modulation and Encryption

This plan identifies allowable modulation and encryption on calling and tactical channels:

- Wideband (**prior** to January 1, 2013): Analog Modulation on VHF and UHF @5Khz is mandatory on all calling and tactical channels to facilitate interoperability with legacy radio equipment in the field.

- Narrowband (**after** January 1, 2013): Analog Modulation @2.5Khz is mandatory on all calling and tactical channels to facilitate interoperability with legacy radio equipment in the field.

- 800 MHz Calling Channels: Analog Modulation @4Khz is mandatory on all calling and tactical channels to facilitate interoperability with legacy radio equipment in the field.

- 700 MHz interoperability channels must always use P25 Phase 1 CAI digital Modulation.

- For occasional pre-planned events where communications security is an issue, encrypted P-25 Phase 1 CAI modes are authorized on tactical channels. Specific encryption algorithms and encryption keys shall be as defined by the event COM-L.

SPECIFIC GUIDELINES – 700 MHz Channels

For narrowband 700 MHz interoperability, the 32 narrowband repeater channels, with their associated 32 direct channels, are described in Table 3 below. Table 4 includes the corresponding Tactical Repeater Configuration.

Note the following:

- Narrowband 700 MHz interoperability channels are identified by the FCC for interoperability use within Texas. All fixed 700 MHz interoperable channel locations must be reviewed by the Office of the Texas SWIC prior to implantation. Some of these interoperable channels may already be licensed by multiple agencies for interoperability use throughout the state.

- All 700 MHz interoperability channels are to be used as multi-discipline, multi-agency public safety interoperability calling channels for all public safety agencies and other signatories to the MOU associated with this channel plan. These channels are designated for interoperable 700 MHz narrowband communications between mobile/portable radios and base stations, temporary base stations, and on-incident incident commander.

- The tactical repeater channels and direct channels identified in Table 4 should be assigned on-incident by the incident commander.

- National efforts to standardize interoperability channel names/labels have been undertaken to ensure that public safety equipment uses a common naming convention. These labels are listed in Tables 3 and 4 and all participating agencies must use these labels.

700 MHz Interoperability Channels (12.5 kHz)

Emission Designator 11K2G2E

Mobile and Portable Configuration					
Label	**Receive**	**Transmit**	**Station Class**	**P25 NAC Hex/Dec**	**Use**
7CALL50	769.24375	799.24375	FX1T / MO	$293 / 659	Calling Channel
7CALL50D	769.24375	769.24375	FX1T / MO	$293 / 659	Calling Channel (Direct)
7TAC51	769.14375	799.14375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC51D	769.14375	769.14375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7TAC52	769.64375	799.64375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC52D	769.64375	769.64375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7TAC53	770.14375	800.14375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC53D	770.14375	770.14375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7TAC54	770.64375	800.64375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC54D	770.64375	770.64375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7TAC55	769.74375	799.74375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC55D	769.74375	769.74375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7TAC56	770.24375	800.24375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC56D	770.24375	770.24375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7GTAC57	770.99375	800.99375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7GTAC57D	770.99375	770.99375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7MOB59	770.89375	800.89375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7MOB59D	770.89375	770.89375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7LAW61	770.39375	800.39375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7LAW61D	770.39375	770.39375	FX1T / MO	$293 / 659	Tactical Channel (Direct)

700 MHz Interoperability Channels (12.5 kHz) cont.

Emission Designator 11K2G2E

Mobile and Portable Configuration					
Label	**Receive**	**Transmit**	**Station Class**	**P25 NAC Hex/Dec**	**Use**
7LAW62	770.49375	800.49375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7LAW62D	770.49375	770.49375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7FIRE63	769.89375	799.89375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7FIRE63D	769.89375	769.89375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7FIRE64	769.99375	799.99375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7FIRE64D	769.99375	769.99375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7MED65	769.39375	799.39375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7MED65D	769.39375	769.39375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7MED66	769.49375	799.49375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7MED66D	769.49375	769.49375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7DATA69	770.74375	800.74375	FX1T / MO	$293 / 659	Tactical Repeater Channel
7DATA69D	770.74375	770.74375	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7TAC71	773.10625	803.10625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC71D	773.10625	773.10625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7TAC72	773.60625	803.60625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC72D	773.60625	773.60625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7TAC73	774.10625	804.10625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC73D	774.10625	774.10625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7TAC74	774.60625	804.60625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC74D	774.60625	774.60625	FX1T / MO	$293 / 659	Tactical Channel (Direct)

700 MHz Interoperability Channels (12.5 kHz) cont.

Emission Designator 11K2G2E

Mobile and Portable Configuration					
Label	**Receive**	**Transmit**	**Station Class**	**P25 NAC Hex/Dec**	**Use**
7TAC75	773.75625	803.75625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC75D	773.75625	773.75625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7TAC76	774.25625	804.25625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7TAC76D	774.25625	774.25625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7GTAC77	774.85625	804.85625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7GTAC77D	774.85625	774.85625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7MOB79	774.50625	804.50625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7MOB79D	774.50625	774.50625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7LAW81	774.00625	804.00625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7LAW81D	774.00625	774.00625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7LAW82	774.35625	804.35625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7LAW82D	774.35625	774.35625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7FIRE83	773.50625	803.50625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7FIRE83D	773.50625	773.50625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7FIRE84	773.85625	803.85625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7FIRE84D	773.85625	773.85625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7MED86	773.00625	803.00625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7MED86D	773.00625	773.00625	FX1T / MO	$293 / 659	Tactical Channel (Direct)

700 MHz Interoperability Channels (12.5 kHz) cont.

Emission Designator 11K2G2E

Mobile and Portable Configuration					
Label	**Receive**	**Transmit**	**Station Class**	**P25 NAC Hex/Dec**	**Use**
7MED87	773.35625	803.35625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7MED87D	773.35625	773.35625	FX1T / MO	$293 / 659	Tactical Channel (Direct)
7DATA89	774.75625	804.75625	FX1T / MO	$293 / 659	Tactical Repeater Channel
7DATA89D	774.75625	774.75625	FX1T / MO	$293 / 659	Tactical Channel (Direct)

700 MHz Interoperability Channels (12.5 kHz)

Emission Designator 11K2G2E

Temporary Calling Channel / Tactical Repeater Configuration					
Label	**Transmit**	**Receive**	**Station Class**	**P25 NAC Hex/Dec**	**Use**
7CALL50	769.24375	799.24375	FB2T	$293 / 659	Temporary Calling Channel Repeater
7TAC51	769.14375	799.14375	FB2T	$293 / 659	Temporary Tactical Repeater
7TAC52	769.64375	799.64375	FB2T	$293 / 659	Temporary Tactical Repeater
7TAC53	770.14375	800.14375	FB2T	$293 / 659	Temporary Tactical Repeater
7TAC54	770.64375	800.64375	FB2T	$293 / 659	Temporary Tactical Repeater
7TAC55	769.74375	799.74375	FB2T	$293 / 659	Temporary Tactical Repeater
7TAC56	770.24375	800.24375	FB2T	$293 / 659	Temporary Tactical Repeater
7GTAC57	770.99375	800.99375	FB2T	$293 / 659	Temporary Tactical Repeater
7MOB59	770.89375	800.89375	FB2T	$293 / 659	Temporary Tactical Repeater
7LAW61	770.39375	800.39375	FB2T	$293 / 659	Temporary Tactical Repeater
7LAW62	770.49375	800.49375	FB2T	$293 / 659	Temporary Tactical Repeater
7FIRE63	769.89375	799.89375	FB2T	$293 / 659	Temporary Tactical Repeater

7FIRE64	769.99375	799.99375	FB2T	$293 / 659	Temporary Tactical Repeater
7MED65	769.39375	799.39375	FB2T	$293 / 659	Temporary Tactical Repeater
7MED66	769.49375	799.49375	FB2T	$293 / 659	Temporary Tactical Repeater
7DATA69	770.74375	800.74375	FB2T	$293 / 659	Temporary Tactical Repeater
7TAC71	773.10625	803.10625	FB2T	$293 / 659	Temporary Tactical Repeater
7TAC72	773.60625	803.60625	FB2T	$293 / 659	Temporary Tactical Repeater
7TAC73	774.10625	804.10625	FB2T	$293 / 659	Temporary Tactical Repeater
7TAC74	774.60625	804.60625	FB2T	$293 / 659	Temporary Tactical Repeater

700 MHz Interoperability Channels (12.5 kHz)

Emission Designator 11K2G2E

Temporary Calling Channel / Tactical Repeater Configuration					
Label	**Transmit**	**Receive**	**Station Class**	**P25 NAC Hex/Dec**	**Use**
7TAC75	773.75625	803.75625	FB2T	$293 / 659	Temporary Tactical Repeater
7TAC76	774.25625	804.25625	FB2T	$293 / 659	Temporary Tactical Repeater
7GTAC77	774.85625	804.85625	FB2T	$293 / 659	Temporary Tactical Repeater
7MOB79	774.50625	804.50625	FB2T	$293 / 659	Temporary Tactical Repeater
7LAW81	774.00625	804.00625	FB2T	$293 / 659	Temporary Tactical Repeater
7LAW82	774.35625	804.35625	FB2T	$293 / 659	Temporary Tactical Repeater
7FIRE83	773.50625	803.50625	FB2T	$293 / 659	Temporary Tactical Repeater
7FIRE84	773.85625	803.85625	FB2T	$293 / 659	Temporary Tactical Repeater
7MED86	773.00625	803.00625	FB2T	$293 / 659	Temporary Tactical Repeater
7MED87	773.35625	803.35625	FB2T	$293 / 659	Temporary Tactical Repeater
7DATA89	774.75625	804.75625	FB2T	$293 / 659	Temporary Tactical Repeater

Region 50: 700MHz Plan

Appendix J: 700MHz Spectrum Border Agreements with Mexico

Appendix J1 is an official copy of the amendment to the:

Agreement Between the
Government of the United States of America
and the Government of the United Mexican States
Concerning the Allocation and Use of Frequency Bands by
Terrestrial Non-Broadcasting Radio communications Services
Along the Common Border

Appendix J2 is an official copy of the amendment to the:

PROTOCOL
BETWEEN THE DEPARTMENT OF STATE
OF THE UNITED STATES OF AMERICA
AND THE SECRETARIAT OF COMMUNICATIONS AND TRANSPORTATION
OF THE UNITED MEXICAN STATES
CONCERNING THE ALLOTMENT AND USE OF THE 698-806 MHz BAND
FOR TERRESTRIAL NON-BROADCASTING RADIOCOMMUNICATION SERVICES
ALONG THE COMMON BORDER

SECRETARIA DE COMUNICACIONES
Y
TRANSPORTES

FormaC. G.-1-A

Subsecretaria de Comunicaciones

2.- 045 / 2011

México, D.F., a 28 JUL. 2011

Sr. Julius Genachowski
Presidente, Comisión Federal de Comunicaciones
445 Twelfth Street, SW
Washington, DC 20554

Estimado Presidente Genachowski:

Me refiero a su carta de fecha 19 de julio de 2011 relativa a una propuesta de enmienda al *Protocolo entre la Secretaría de Comunicaciones y Transportes de los Estados Unidos Mexicanos y el Departamento de Estado de los Estados Unidos de América, relativo a la Adjudicación y Uso de la Banda de 698-806 MHz para Servicios de Radiocomunicación Terrenal Excepto Radiodifusión a lo Largo de la Frontera Común,* firmado en la Ciudad de México el 1 de noviembre de 2006, y en Antalya, Turquía el 8 de noviembre de 2006 (el "Protocolo de 2006"), la cual, en su parte pertinente, establece lo siguiente:

> "Con arreglo al Artículo IV del *Acuerdo entre el Gobierno de los Estados Unidos Mexicanos y el Gobierno de los Estados Unidos de América relativo a la Atribución y el Uso de las Bandas de Frecuencia por los Servicios Terrenales de Radiocomunicaciones, excepto Radiodifusión a lo Largo de la Frontera Común,* firmado en Williamsburg, Virginia el 16 de junio de 1994 (el "Acuerdo de 1994"), la Comisión Federal de Comunicaciones (*Federal Communications Commission*) es la Administración designada por los Estados Unidos de América conforme al párrafo 1, Artículo II del *Protocolo entre la Secretaría de Comunicaciones y Transportes de los Estados Unidos Mexicanos y el Departamento de Estado de los Estados Unidos de*

América, relativo a la Adjudicación y Uso de la Banda de 698-806 MHz para Servicios de Radiocomunicación Terrenal Excepto Radiodifusión a lo Largo de la Frontera Común, firmado en la Ciudad de México el 1 de noviembre de 2006, y en Antalya, Turquía el 8 de noviembre de 2006 (el "Protocolo de 2006"). Como resultado de las discusiones sostenidas en el Grupo de Trabajo Bilateral de la Comisión Consultiva de Alto Nivel de Telecomunicaciones (CCAN), y conforme al Artículo V del Acuerdo de 1994, me complace proponer, en nombre de la Comisión Federal de Comunicaciones, que el Protocolo de 2006 sea enmendado de la siguiente forma:

El inciso 2.a.i del Artículo III deberá reflejar la siguiente redacción:

'(i) La máxima densidad de flujo de potencia (DFP) de todas las emisiones no deberá exceder de -96 dBW/m² en la frontera o más allá de ésta en ningún ancho de banda de 1 MHz'.

El inciso 2.a.iv.*3* del Artículo III deberá reflejar la siguiente redacción:

'(*3*) Continuar las operaciones con una DFP superior a -96 dBW/m²/MHz hasta que el operador notifique a su operador contraparte que el entendimiento mutuo a que se refiere el inciso anterior (el inciso 2.a.iv. 2 de este Artículo) ha sido revocado o hasta que la Administración pertinente notifique al operador que debe retornar a la DFP que exige el inciso 2.a.i', y

Se añadirá un inciso al inciso 2.a del Artículo III, a continuación del inciso (iv), que diga lo siguiente:

'(v) Cuando no haya un operador contraparte a una distancia de no más de 110 km (68.35 millas) de la frontera, una Administración podrá imponer las siguientes condiciones a sus operadores:

(*1*) Las estaciones no generarán una DFP que exceda de -96 dBW/m²/MHz, salvo acuerdo en contrario por consentimiento mutuo entre las dos Administraciones. En caso de acuerdo mutuo entre las dos Administraciones, la Administración que tenga la jurisdicción sobre el operador interesado en rebasar el límite de la DFP deberá conceder la autorización necesaria para el funcionamiento a un nivel superior de transmisión y el operador solicitará dicha autorización a su Administración;

(*2*) Cuando un operador que esté a una distancia de 110 km (68.35 millas) o menos de la frontera utilice un nivel de transmisión superior a -96 dBW/m²/MHz en la frontera común y sea notificado del inicio de funcionamiento por un operador contraparte del otro lado de la frontera, ambos operadores deberán coordinar los debidos parámetros técnicos y operativos de la red y buscarán la coordinación mediante el procedimiento al que se refiere el anterior inciso 2.a.iv, y'.

Por último, el inciso preexistente 2.a.v del Artículo III deberá ser numerado inciso 2.a.vi."

De conformidad con el párrafo 1 del Artículo III del Protocolo de 2006, donde se designa a la Secretaría de Comunicaciones y Transportes como la Administración designada por los Estados Unidos Mexicanos, me complace

informarle que las enmiendas que propone resultan aceptables para la Secretaría de Comunicaciones y Transportes. Por lo que no existe inconveniente en que su carta y la presente carta de respuesta constituyan un acuerdo entre la Secretaría de Comunicaciones y Transportes de los Estados Unidos Mexicanos y la Comisión Federal de Comunicaciones de los Estados Unidos de América para enmendar el "Protocolo de 2006," mismo que entrará en vigor a partir de la fecha de la presente. Lo anterior sin perjuicio del compromiso de ambas Administraciones de iniciar el proceso para la suscripción de las enmiendas correspondientes al Protocolo en comento que reflejen los cambios contenidos en el presente escrito, así como aquellos cambios que en un futuro se estimen convenientes.

Sírvase aceptar la expresión de mi más alta y distinguida consideración.

Atentamente,
El Subsecretario

Héctor Olavarría Tapia

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C.c. p.- Mtro. Dionisio Pérez-Jácome Friscione.- Secretario de Comunicaciones y Transportes.
Mtro. Mony de Swaan Addati.- Presidente.- Comisión Federal de Telecomunicaciones.

[TRANSLATION TO ENGLISH OF MEXICO's LETTER-IN-REPLY]

UNITED MEXICAN STATES

[Seal]

SECRETARIAT OF COMMUNICATIONS
AND TRANSPORTATION

Under Secretariat of Communications

2.- 045/2011

Mexico City, on 28 Jul 2011

Mr. Julius Genachowski
Chairman, Federal Communications Commission
445 Twelfth Street, SW
Washington, DC 20554

Dear Chairman Genachowski:

I refer to your letter dated July 19, 2011 regarding a proposed amendment to the "*Protocol Between the Department of State of the United States of America and the Secretariat of Communications and Transportation of the United Mexican States Concerning the Allotment and Use of the 698-806 MHz Band for Terrestrial Non-Broadcasting Radiocommunication Services Along the Common Border*," signed at Mexico City on November 1, 2006, and at Antalya, Turkey on November 8, 2006 (the "2006 Protocol"), which, in relevant part, establishes the following:

Pursuant to Article IV of the *Agreement Between the Government of the United States of America and the Government of the United Mexican States Concerning the Allocation and Use of Frequency Bands by Terrestrial Non-Broadcasting Radiocommunication Services Along the Common Border* signed at Williamsburg, Virginia on June 16, 1994 (the "1994 Agreement"), the Federal Communications Commission is the designated Administration for the United States under Article II, paragraph 1 of the *Protocol Between the Department of State of the United States of America and the Secretariat of Communications and Transportation of the United Mexican States Concerning the Allotment and Use of the 698-806 MHz Band for Terrestrial Non-Broadcasting Radiocommunication Services Along the Common Border*, signed at Mexico City on November 1, 2006, and at Antalya, Turkey on November 8, 2006 (the "2006 Protocol"). As a result of discussions that have taken place under the Bilateral Working Level of the U.S.-Mexico High Level Consultative Commission on Telecommunications (HLCC) and in accordance with Article V of the 1994 Agreement, I am pleased to propose, on behalf of the Federal Communications Commission, that the 2006 Protocol be amended as follows:

Article III, subparagraph 2.a.i shall read as follows:

"(i) The maximum power flux density (PFD) at any point at or beyond the common border of all emissions shall not exceed -96 dBW/m² in any 1 MHz bandwidth;";

Article III, subparagraph 2.a.iv.*3* shall read as follows:

"*(3)* Continue operations with a PFD greater than -96 dBW/m²/MHz either until the operator notifies its counterpart operator(s) that the mutual understanding referred to in the prior subparagraph (subparagraph 2.a.iv.*2* of this Article) is cancelled or until the operator is notified by the appropriate Administration to return to the PFD required in subparagraph 2.a.i; and"; and

A subparagraph shall be added to Article III, subparagraph 2.a., which subparagraph (2.a.v) shall read as follows:

"(v) In cases where there is no counterpart operator within 110 km (68.35 miles) of the border, an Administration may apply the following conditions to its operators:

(*1*) Stations may not produce a PFD that exceeds -96 dBW/m²/MHz, unless otherwise agreed by both Administrations by mutual consent. In case of mutual agreement by both Administrations, the Administration with jurisdiction over the operator seeking to exceed the PFD limit shall provide the necessary authorization for operation at the higher transmission level and the operator shall request such authorization from its Administration;

(*2*) When an operator within 110 km (68.35 miles) of the border employs a transmission level greater than -96 dBW/m²/MHz at the common border and is notified of startup operations by a counterpart operator on the other side of the border, both operators shall coordinate appropriate technical and operational network parameters and seek coordination using the process set forth in subparagraph 2.a.iv. above; and".

Lastly, subparagraph 2.a.v of Article III shall be relabeled as subparagraph 2.a.vi.

In accordance with Article III, paragraph 1 of the 2006 Protocol, where the Secretariat of Communications and Transportation is designated as the Administration of the United Mexican States, I am pleased to inform you that your proposed amendments are acceptable to the Secretariat of Communications and Transportation. Consequently, the Secretariat of Communications and Transportation finds it appropriate to agree that your letter and this letter in reply shall constitute an agreement between the Federal Communications Commission of the United States and the Secretariat of Communications and Transportation of the United Mexican States to amend the "2006 Protocol," which agreement shall enter into force starting on the date of this letter. The above provisions of this letter have no affect on both Administrations' commitment to start the process leading to the signing of the related amendments to the Protocol in question so as to reflect the changes contained in this document, as well as those deemed convenient in the future.

Please accept this expression of my highest and distinguished consideration.

Sincerely,
The Under Secretary

/Original Signed by *Héctor Olavarría Tapia/*

Héctor Olavarría Tapia

Copy to: Mr. Dionisio Pérez-Jácome Friscione, Secretary of Communications and Transportation (SCT);
Mr. Mony de Swaan Addati, Chairman, Federal Telecommunications Commission (COFETEL).

FEDERAL COMMUNICATIONS COMMISSION

JULIUS GENACHOWSKI
CHAIRMAN

July 19, 2011

Mr. Héctor Olavarría Tapia
Under Secretary of Communications
Secretariat of Communications and Transportation
Xola y Avenida Universidad
Cuerpo "C" Primer Piso
C.P. 03020 México D.F.

Dear Mr. Olavarría:

Pursuant to Article IV of the *Agreement Between the Government of the United States of America and the Government of the United Mexican States Concerning the Allocation and Use of Frequency Bands by Terrestrial Non-Broadcasting Radiocommunication Services Along the Common Border* signed at Williamsburg, Virginia on June 16, 1994 (the "1994 Agreement"), the Federal Communications Commission is the designated Administration for the United States under Article II, paragraph 1 of the *Protocol Between the Department of State of the United States of America and the Secretariat of Communications and Transportation of the United Mexican States Concerning the Allotment and Use of the 698-806 MHz Band for Terrestrial Non-Broadcasting Radiocommunication Services Along the Common Border*, signed at Mexico City on November 1, 2006, and at Antalya, Turkey on November 8, 2006 (the "2006 Protocol").

As a result of discussions that have taken place under the Bilateral Working Level of the U.S.-Mexico High Level Consultative Commission on Telecommunications (HLCC) and in accordance with Article V of the 1994 Agreement, I am pleased to propose, on behalf of the Federal Communications Commission, that the 2006 Protocol be amended as follows:

Article III, subparagraph 2.a.i shall read as follows:

"(i) The maximum power flux density (PFD) at any point at or beyond the common border of all emissions shall not exceed -96 dBW/m² in any 1 MHz bandwidth;";

Article III, subparagraph 2.a.iv.*3* shall read as follows:

"*(3)* Continue operations with a PFD greater than -96 dBW/m²/MHz either until the operator notifies its counterpart operator(s) that the mutual understanding referred to in the prior subparagraph (subparagraph 2.a.iv.*2* of this Article) is cancelled or until the operator is notified by the appropriate Administration to return to the PFD required in subparagraph 2.a.i; "; and

A subparagraph shall be added to Article III, subparagraph 2.a. following subparagraph (iv), which shall read as follows:

"(v) In cases where there is no counterpart operator within 110 km (68.35 miles) of the border, an Administration may apply the following conditions to its operators:

(*1*) Stations may not produce a PFD that exceeds -96 dBW/m²/MHz, unless otherwise agreed by both Administrations by mutual consent. In case of mutual agreement by both Administrations, the Administration with jurisdiction over the operator seeking to exceed the PFD limit shall provide the necessary authorization for operation at the higher transmission level and the operator shall request such authorization from its Administration;

(*2*) When an operator within 110 km (68.35 miles) of the border employs a transmission level greater than -96 dBW/m²/MHz at the common border and is notified of startup operations by a counterpart operator on the other side of the border, both operators shall coordinate appropriate technical and operational network parameters and seek coordination using the process set forth in subparagraph 2.a.iv. above; and".

Lastly, the pre-existing subparagraph 2.a.v of Article III shall be relabeled subparagraph 2.a.vi.

If the above-proposed amendments are acceptable to the Secretariat of Communications and Transportation, I further propose that this letter and your affirmative letter in reply shall constitute an agreement between the Federal Communications Commission of the United States of America and the Secretariat of Communications and Transportation of the United Mexican States to amend the 2006 Protocol, which agreement shall enter into force on the date of your letter in reply. The above provisions of this letter have no affect on both Administrations' commitment to start the process leading to the signing of the related amendments to the Protocol in question so as to reflect the changes contained in this document, as well as those deemed convenient in the future.

Sincerely,

Julius Genachowski

NOTE: Subject to final minor editorial review

PROTOCOL
BETWEEN THE DEPARTMENT OF STATE OF THE UNITED STATES OF AMERICA AND THE SECRETARIAT OF COMMUNICATIONS AND TRANSPORTATION OF THE UNITED MEXICAN STATES CONCERNING THE ALLOTMENT AND USE OF THE 698-806 MHz BAND FOR TERRESTRIAL NON-BROADCASTING RADIOCOMMUNICATION SERVICES ALONG THE COMMON BORDER

This Protocol is being concluded pursuant to the Agreement between the Government of the United States of America and the Government of the United Mexican States Concerning the Allocation and Use of Frequency Bands by Terrestrial Non-Broadcasting Radiocommunication Services along the Common Border, signed at Williamsburg, Virginia, June 16, 1994 (herein referred to as the "Agreement").

ARTICLE I. Purposes

The purposes of this Protocol are:

1. To establish and adopt a plan for the equitable allotment and use of frequency sub-bands in the 698-806 MHz band within the Sharing Zone defined in this Protocol;

2. To establish technical criteria that will permit each Administration to regulate the use of the frequency sub-bands referred to in paragraph 1 of this Article;

3. To establish conditions of use so that each Administration may use the frequency sub-bands allotted to the other country, provided this causes no harmful interference to stations operating within the other country; and

4. To continue interference protection for broadcasting services in both countries in a manner consistent with the terms set forth in the "Agreement Relating to Assignments and Usage of Television Broadcasting Channels in the Frequency Range 470-806 MHz (Channels 14-69) along the United States-Mexico border," signed by the United States and Mexico at Mexico City June 18, 1982, as amended (hereinafter the "1982 Agreement"), and the "Memorandum of Understanding between the Federal Communications Commission of the United States of America and the Secretaria de Comunicaciones y Transportes of the United Mexican States related to the use of the 54-72 MHz, 76-88 MHz, 174-216 MHz and 470-806 MHz bands for digital television broadcasting service along the common border," signed at Mexico City July 22, 1998 (hereinafter the "1998 Memorandum") until these instruments are replaced by new instruments, or are modified or terminated.

ARTICLE II. Definitions

1. For the purpose of this Protocol and as provided for in Article IV of the Agreement, the term "Administration" or "Administrations" shall refer with equal effect to the Federal Communications Commission of the United States of America (hereinafter “FCC”) and the Secretaría de Comunicaciones y Transportes of the United Mexican States (hereinafter “SCT”).

2. For the purpose of this Protocol, the term "Sharing Zone" is defined to include the border areas within the United States and Mexico and their respective territorial waters as set forth in Appendix I.

3. For the purpose of this Protocol, the term “television station” is defined to include an assignment or allotment in the television broadcasting service, analog or digital.

4. For the purpose of this Protocol, the term “counterpart operators” is defined to include operators of communications networks operating in certain frequency sub-bands in the 698-806 MHz band with geographic coverage areas situated contiguous to each other and authorized by the Administrations to use the same sub-bands or portions of the same sub-bands.

ARTICLE III. Conditions of Use for Radiocommunication Services

1. For the frequency sub-bands 764-776 MHz and 794-806 MHz (TV Channels 63-64 and 68-69):

a. In the Sharing Zone, the frequencies in these sub-bands shall be allotted for the primary use of each Administration in accordance with Appendix II. Each Administration shall ensure that stations in its national territory are assigned and operated in such a way that the transmission bandwidth on radio

channels shall not exceed the primary frequency allotments for that country in Appendix II.

b. Each Administration shall ensure that radiocommunication stations in these sub-bands that are assigned to primary frequency allotments within the Sharing Zone shall be operated in accordance with the effective radiated power (ERP) and antenna height limitations specified in the following table (Table I):

Table I

Average of the Antenna Height Above Average Terrain on Standard Radials in the Direction of the Common Border[1]	Maximum ERP in Any Direction Toward the Common Border
Meters	Watts (Maximum)
Up to 503	500
Above 503 to 609	350
Above 609 to 762	200
Above 762 to 914	140
Above 914 to 1066	100
Above 1066 to 1219	75
Above 1219 to 1371	70
Above 1371 to 1523	65
Above 1523	5

[1] Standard radials are 000°, 045°, 090°, 135°, 180°, 225°, 270° and 315°, relative to True North.

c. Frequencies in these sub-bands that are allotted for the primary use of one Administration may be assigned by the other Administration to stations located within the latter Administration's territorial segment of the Sharing Zone under the following conditions:

(i) The maximum power flux density (PFD) at any point at or beyond the common border shall not exceed -120 dBW/m^2 per 1 kHz;

(ii) Counterpart operators of communications networks in these frequency sub-bands (764-776 MHz and 794-806 MHz) may exceed the maximum PFD in subparagraph 1.c.i above if all potentially affected counterpart operators in the other country agree to a different PFD and approval is obtained from the appropriate Administration;

(iii) Each Administration shall take appropriate measures to eliminate any harmful interference caused by stations operating within its own territory to stations operating on frequency sub-bands allotted on a primary basis to the other country pursuant to this Protocol; and

(iv) Stations operating under this provision (subparagraph 1.c of Article III) shall be considered as secondary and shall not be granted protection against harmful interference from stations whose Administration has primary use of the frequency allotment as long as the stations on the primary frequency allotment operate in accordance with the technical limitations in subparagraphs 1.a and 1.b of this Article.

d. Beyond the Sharing Zone, the Administrations' use of the 764-776 MHz and 794-806 MHz frequency sub-bands shall in no way be restricted under this Protocol.

2. For the frequency sub-bands 698-764 MHz and 776-794 MHz (TV Channels 52-62 and 65-67):

a. All frequencies in these sub-bands are available to both Administrations on an equal basis for the provision of radiocommunication services within their respective national territories within the Sharing Zone in accordance with the following conditions:

(i) The maximum power flux density (PFD) at any point at or beyond the common border of all emissions shall not exceed -106 dBW/m^2 within the authorized bandwidth;

(ii) Both Administrations shall take appropriate measures to eliminate harmful interference to stations operating in the frequency sub-bands allotted under this paragraph (Article III, paragraph 2);

(iii) Measurements of transmitter power output shall be made in accordance with Appendix III;

(iv) The Administrations shall authorize counterpart operators in these frequency sub-bands (698-764 MHz and 776-794 MHz) to take the following actions:

1. Coordinate appropriate technical and operational network parameters when necessary to provide for cross-border roaming or other collaborative operations;

2. Exceed the PFD provided in subparagraph 2.a.i of this Article based upon a mutual understanding among the counterpart operators and based upon prior notification of the terms of the mutual understanding to the two Administrations;

3. Continue operations with a PFD greater than - 106 dBW/m^2 within the authorized bandwidth either until the operator notifies its counterpart operator(s) that the mutual understanding referred to in the prior subparagraph (subparagraph 2.a.iv.*2* of this Article) is cancelled or until the operator is notified by the appropriate Administration to return to the PFD required in subparagraph 2.a.i; and

(v) The maximum out-of-band emission in the sub-bands 764-776 MHz and 794-806 MHz shall not exceed -120 dBW/m^2 per 1 kHz at any point at or beyond the common border.

b. Beyond the Sharing Zone, the Administrations' use of the 698-764 MHz and 776-794 MHz frequency sub-bands shall in no way be restricted under this Protocol.

ARTICLE IV. Transition and Protection of the Television Broadcasting Service

1. The protection to which this Article refers is intended to be provided consistent with the terms set forth in the 1982 Agreement, as amended, as well as the 1998 Memorandum until these instruments are replaced by new instruments, or are modified or terminated.

2. Assignments in the radiocommunication services in the band 698-806 MHz shall protect analog and digital television stations in accordance with the following desired-to-undesired (D/U) signal ratios:

a. For analog television stations. The minimum D/U ratio is 40 decibels (dB) for the co-channel case and 0 dB for the adjacent channel case. The minimum D/U ratio must be satisfied within the 64 dBµV/m coverage contour of the analog television station; if this contour extends beyond the common border, the minimum D/U ratio will be calculated at the common border. The interference criteria to be used for this provision (subparagraph 2.a of Article IV), is based on 50% of all locations no more than 10% of the time; and

b. For digital television stations. The minimum D/U ratio is 17 dB for the co-channel case and -23 dB for the adjacent channel case. The minimum D/U ratio must be satisfied within the 41 dBµV/m contour of the digital television station; if this contour extends beyond the common border, the minimum D/U ratio will be calculated at the common border. The interference criteria to be used for this provision (subparagraph 2.b of Article IV), is based on 50% of all locations no more than 10% of the time.

3. In order to promote spectrum efficiency under the terms of this Protocol, both Administrations will make their best efforts to support transitioning digital television stations to the 54-72 MHz, 76-88 MHz, 174-216 MHz and 470-698 MHz bands (TV Channels 2-51).

ARTICLE V. Appendices

Appendices I, II, and III are integral parts of this Protocol.

ARTICLE VI. Entry into Force and Termination

This Protocol shall enter into force on the last date of signature affixed below. It shall remain in force until it is replaced by a new or amended protocol, or until it is terminated in accordance with Article VII of the Agreement.

IN WITNESS WHEREOF, the respective representatives sign the present Protocol.

Signed at Mexico City on this first day of November, 2006, and at Antalya, Turkey, on this eighth day of November, 2006, in duplicate in the English and Spanish languages, both texts being equally authentic.

FOR THE DEPARTMENT OF STATE OF THE UNITED STATES OF AMERICA

/s/ David A Gross

Ambassador David A. Gross
U.S. Coordinator for International Communications and Information Policy

FOR THE SECRETARIAT OF COMMUNICATIONS AND TRANSPORTATION OF THE UNITED MEXICAN STATES

/s/ Jorge Alvarez Hoth

Mr. Jorge Alvarez Hoth
Under Secretary of Communications

/s/ Hector G. Osuna Jaime

Mr. Hector G. Osuna Jaime
Chairman, Federal Telecommunications Commission

APPENDIX I

<u>Areas Within Which the Frequencies Are to Be Protected</u>

U.S.-MEXICO SHARING ZONE

The Sharing Zone is defined as the areas covered by a distance of 110 kilometers (68.35 Miles) from the U.S.-Mexico common border into the national territory of each country and includes areas of the Pacific Ocean and the Gulf of Mexico.

These areas are enclosed by the boundaries shown on the map below and are further defined in Table II.

Table II

The following geographic coordinates (corresponding to NAD83) define the U.S.-Mexico Sharing Zone in the national territory of each country. Point 1 is located in the Pacific Ocean due west from the U.S.-Mexico common border and defines the starting point of the Sharing Zone. The boundary of the Sharing Zone is then defined by plotting each geographic point in advancing numerical order in a clockwise direction.

ID	longitude decimal degrees	latitude decimal degrees	longitude deg/min/sec	latitude deg/min/sec
1	-122.1324	31.5235	122/07/56 W	31/31/24 N
2	-119.2616	32.0537	119/15/41 W	32/03/13 N
3	-118.5985	33.3415	118/35/54 W	33/20/29 N
4	-118.1657	33.5837	118/09/56 W	33/35/01 N
5	-117.7038	33.6483	117/42/13 W	33/38/53 N
6	-117.0916	33.5693	117/05/29 W	33/34/09 N
7	-114.4342	33.7229	114/26/03 W	33/43/22 N
8	-113.5516	33.1732	113/33/05 W	33/10/23 N
9	-110.9020	32.3491	110/54/07 W	32/20/56 N
10	-109.0659	32.3519	109/03/57 W	32/21/06 N
11	-108.6352	32.7974	108/38/06 W	32/47/50 N
12	-106.1107	32.8123	106/06/38 W	32/48/44 N
13	-103.8529	31.0554	103/51/10 W	31/03/19 N
14	-103.5560	30.2756	103/33/21 W	30/16/32 N
15	-103.1130	30.7142	103/06/46 W	30/42/51 N
16	-102.1958	30.9402	102/11/45 W	30/56/24 N
17	-100.4516	30.6660	100/27/05 W	30/39/57 N
18	-97.9163	27.0978	97/54/58 W	27/05/52 N
19	-97.1379	26.9756	97/08/16 W	26/58/32 N
20	-96.5071	27.0384	96/30/25 W	27/02/18 N
21	-93.4156	27.0181	93/24/56 W	27/01/05 N
22	-91.0891	26.7119	91/05/20 W	26/42/42 N
23	-90.5847	26.7851	90/35/04 W	26/47/06 N
24	-88.1724	26.6918	88/10/20 W	26/41/30 N
25	-88.2459	24.6980	88/14/45 W	24/41/52 N
26	-90.4566	24.7738	90/27/23 W	24/46/25 N
27	-90.9949	24.6998	90/59/41 W	24/41/59 N
28	-93.4595	24.9541	93/27/34 W	24/57/14 N
29	-96.6737	24.9901	96/40/25 W	24/59/24 N
30	-97.3714	24.7983	97/22/17 W	24/47/53 N
31	-98.0746	24.9511	98/04/28 W	24/57/03 N
32	-99.7404	25.5613	99/44/25 W	25/33/40 N
33	-101.9323	28.7236	101/55/56 W	28/43/24 N
34	-102.6689	28.0418	102/40/08 W	28/02/30 N
35	-103.3540	27.8941	103/21/14 W	27/53/38 N
36	-105.1973	28.7692	105/11/50 W	28/46/09 N
37	-105.8133	29.9143	105/48/47 W	29/54/51 N
38	-106.9438	30.7571	106/56/37 W	30/45/25 N
39	-107.3627	30.7571	107/21/45 W	30/45/25 N
40	-107.7697	30.3269	107/46/11 W	30/19/36 N
41	-111.2398	30.3160	111/14/23 W	30/18/57 N
42	-115.4915	31.6420	115/29/29 W	31/38/31 N
43	-117.2764	31.4945	117/16/34 W	31/29/40 N
44	-117.8588	30.4207	117/51/31 W	30/25/14 N
45	-118.2297	30.1897	118/13/47 W	30/11/22 N
46	-121.8613	29.5104	121/51/40 W	29/30/37 N

APPENDIX II

Allotment of Frequency Sub-bands
in the 764-776 MHz and 794-806 MHz bands
(TV Channels 63-64 and 68-69)

U.S. Primary	Mexico Primary
764.0 – 765.5 MHz	765.5 – 768.5 MHz
768.5 – 771.5 MHz	771.5 – 774.5 MHz
774.5 – 776.0 MHz	
794.0 – 795.5 MHz	795.5 – 798.5 MHz
798.5 – 801.5 MHz	801.5 – 804.5 MHz
804.5 – 806.0 MHz	

APPENDIX III

Measurement of Transmitter Power Output

Maximum (peak) composite transmitter power output shall be measured over any interval of continuous transmission using instrumentation calibrated in terms of root mean square (RMS) equivalent voltage. The measurement results shall be adjusted appropriately for any instrument limitations such as variations in detector times, limited resolution bandwidth capability when compared to the emission bandwidth, or other related characteristics, in order to obtain a true maximum composite measurement for the emission in question over the full bandwidth of the channel.

Region 50: 700MHz Plan

Appendix K – Certification of Open Meetings

I hereby certify that all planning committee meetings were open to the public. A description of the Region 50 deliberations of committee meetings pursuant to adopting this plan can be found in the proposed plan Section 2.3 and below. The meeting agendas and minutes can be found in Appendix C. A list of public participants can be found in Appendix B, and Appendix C.

Frank Mendez,
Chairman, Region 50

Region 50 Plan
Section 2.3: Operations of the Regional Planning Committee

This committee uses Robert's Rules of Order to conduct meetings. All decisions are made by clear consensus vote with each public safety agency in attendance having one (1) vote. Additional voting member considerations are listed in the Region 50 Bylaws, Appendix A.
The meetings are open to all interested persons and public input time is provided for anyone to express a viewpoint or to have input to the regional planning process. Appendix K is a Certification of Open Meetings. Any changes to the regional plan must be voted on and approved by a majority of members attending a full Regional Planning Committee meeting, in accordance with the procedures contained in Section 2.6 of this plan.

Officers of the committee are the chairman, vice-chairman and secretary. They are elected for a term of three years, or until their successors, if any, are chosen, or in each case until he or she sooner dies, resigns, is removed or becomes disqualified. If the chairman is unable to serve a complete term, the vice-chairman will serve as chairman until the next committee meeting.

Invitees are encouraged to provide input into the planning process. During the meetings, participants are encouraged to comment on the meeting's agenda items and any other pertinent matters. Comments may be heard at the meetings, provided ahead of the meetings on the web sites, and made directly to the chairman, other committee officers, and the subcommittee chairmen.

When comments are made at meetings, the chairman acknowledges the question/comment, and deliberation follows until the commenting party is satisfied or until additional information can be gathered and presented at the next meeting. If voting is necessary, Roberts Rules of Order are followed.

Texas has formed a Statewide Interoperability Executive Committee (SIEC) to manage the 700 MHz interoperability channels. The Texas Statewide Interoperability Channel Plan can be found in Appendix D. The Texas Statewide Interoperability Coordinator (SWIC) works closely with the SIEC and Region 50 officers.

Subcommittees: Subcommittees have been formed as needed to work on specific issues. These subcommittees are intended to work on the details of specific issues and make recommendations to the full committee for the development of the regional plan. Participation in subcommittees is open to any member. The chairman of the RPC appoints each subcommittee chairman. The initial Region 50 subcommittees and their current chairmen are listed below:

- Bylaws = Michael Ada, RGCOG
- Technical/Software/Interoperability = Jorge Perez, Clint PD
- Peer Review/dispute Resolution = Barney Welch, PBRPC COG

Meetings: An annual meeting of the members shall be held at a previously agreed upon location within the planning area in March of each year. If an annual meeting is not held as herein provided, a special meeting of the members may be held in place thereof with the same force and effect as the annual meeting. The chairman also has the authority to call meetings whenever he/she deems it necessary or in the best interest of the region to convene. Any such special meeting shall be called and notice shall be given as provided in Sections 5.2 and 5.4. In an attempt to offer as many people as possible the opportunity to contribute to the committee, some of the meetings have been, and will continue to be WebEx meetings, and/or held in various locations within Region 50.

A chronological list of meetings, meeting announcements, agendas, and meeting minutes documenting Region 50's progress in 700 MHz development is located in Appendix C of this document.

Region 50: 700MHz Plan

Appendix L: Application Checklist

The following checklist summarizes the mandatory application requirements for 700 MHz filings with the Region 50 RPC. Applicants are required to submit a completed and signed checklist with their applications in order to demonstrate that they have included all mandatory application requirements.

For each row, applicants should indicate that the described Region 50 plan requirement has been included within the application package under the "included in application" column.

The remainder of this page left intentionally blank.

Region 50: 700 MHz Application Contents Checklist

R50 700 MHz Plan Section	Requirement	Included in Application?
3.6 (D)(1)	Completed FCC Form 601(s)	
3.6 (D)(2)	Description of the proposed system	
3.6 (D)(3)	Justification for the additional spectrum	
3.6 (D)(4) & 7.3	Proposed system loading schedule (subscriber units / channel)	
3.6 (D)(5)	Proposed implementation schedule	
3.6 (D)(6)	Interference prediction studies per Section 7	
3.6 (D)(7)	Proof of funding commitment	
3.6 (D)(8)	List of frequencies that will be retained by the applicant and their specific uses	
3.3 & 3.6 (D)(9)	List of frequencies with associated FCC call signs which will be relinquished upon implementation of 700 MHz utilizing channels authorized by the RPC.	
3.6 (D)(10)	List of co-channel and adjacent-channel licensees and CAPRAD assignments	
3.6 (D)(11) & 7.2	Statement acknowledging 12/31/2016, 6.25 kHz spectrum efficiency requirement	
4	List of user groups that operate on the system inclusive of their respective public safety or public service disciplines	
8.2	Certification that subscriber units will be programmed with the minimum number of 700 MHz tactical interoperability channels	
8.4	Certification that 700 MHz applicants will monitor the interoperability calling channels in the manner prescribed by the TSIEC.	
Appendix L	Completed application checklist	

I do hereby certify that the mandatory application requirements listed above have been included in my agency's application package and have been completed to the best of my knowledge. The information provided in this application accurately depicts the system as proposed. Any changes to the licensed parameters approved by the RPC will require a new application to Region 50.

_____ _____

Authorized Signature Date

Region 50: 700MHz Plan

Attachment N: Letter of Concurrence from Region 29: New Mexico

Date: 1-10-2013

Subject: Region 29 Letter of Concurrence with Region 50 700MHz Plan

Frank Mendez, Chairman
Region 50 Regional Planning Committee
8600 Montana, Suite C
El Paso, TX 79925

Dear Chairman Mendez,

The Region 29 Regional 700MHz Committee is in receipt of Region 50's 700MHz Regional Plan. The purpose of this letter is to inform you that we have reviewed the Region 50 Plan and find it compliant with the guidelines. Further, we find that it does not conflict with Region 29's 700MHz Plan.

Please let this letter serve as Region 29's official written concurrence of Region 50's 700MHz Regional Plan.

Sincerely,

Laura Phillips

Laura Phillips, Chairperson
Region 29: New Mexico 700 MHz RPC
Broadband and Radio Services Program Manager
State of New Mexico
Department of
Information Technology
Laura.Phillips@state.nm.us

Region 50: 700MHz Plan

Attachment M Inter-Regional Coordination Agreements
(signed copies)

[Inter-Regional Coordination Procedures and Procedures for Resolution of Disputes That May Arise Under FCC Approved Plans]

Note: This form requires original signatures from the designated regions, assuring agreement confirmation of these procedures.

I. INTRODUCTION

1. This is a mutually agreed upon Inter-Regional Coordination Procedures Agreement (Agreement) by and between the 700 MHz Regional Planning Committees of Region 50 and:

- Region 29 – New Mexico
- Region 40 – Texas – Dallas area
- Region 49 – Texas, Austin area
- Region 52 – Texas, Lubbock area
- Region 53 – Texas, San Antonio area

whereas AGREEMENT HERETO and confirmed on the 10 day of January in the year of 2013.

II. INTER-REGIONAL COORDINATION AGREEMENT

2. The following is the specific procedure for Inter-Regional Coordination which has been agreed upon by Regions 29, 40, 49, 50, 52, and 53, and which will be used by the Regions to coordinate with adjacent Regional Planning Committees.

a. An application-filing window is opened or the Region announces that it is prepared to begin accepting applications on a first-come/first-served basis.
b. Applications by eligible entities are accepted.
c. An application-filing window (if this procedure is being used) is closed after appropriate time interval.
d. Intra-Regional review and coordination takes place, including a technical review resulting in assignment of channels.
e. After Intra-Regional review, a copy of those frequency-specific applications requiring adjacent Region approval, including a definition statement of proposed service area, shall then be forwarded to the adjacent Region(s) for

review.[1] This information will be sent to the adjacent Regional chairperson(s) using the CAPRAD database.

f. The adjacent Region reviews the application. If the application is approved, a letter of concurrence shall be sent, via the CAPRAD database, to the initiating Regional chairperson within thirty (30) calendar days.

III. DISPUTE RESOLUTION

(1) If the adjacent Region(s) cannot approve the request, the adjacent Region shall document the reasons for partial or non-concurrence, and respond within 10 (ten) calendar days via email. If the applying Region cannot modify the application to satisfy the objections of the adjacent Region then, a working group comprised of representatives of the two Regions shall be convened within thirty (30) calendar days to attempt to resolve the dispute. The working group shall then report its findings within thirty (30) calendar days to the Regional chairpersons email (CAPRAD database). Findings may include, but not be limited to:

i. Unconditional concurrence;

ii. Conditional concurrence contingent upon modification of Applicant's technical parameters; or

iii. Partial or total denial of proposed frequencies due to inability to meet co-channel/adjacent channel interference free protection to existing licensees within the adjacent Region.

(2) If the Inter-Regional Working Group cannot resolve the dispute, then the matter shall be forwarded for evaluation to the appropriate subcommittee of the National Regional Planning Council (NRPC), or any subsequent oversight organization. Each Region involved in the dispute shall include a detailed explanation of its position, including engineering studies and any other technical information deemed relevant. The NRPC will, within thirty (30) calendar days, report its recommendation(s) to the Regional chairpersons via the CAPRAD database. The NRPC's decision may support either of the disputing Regions or it may develop a proposal that it deems mutually advantageous to each disputing Region.

g. Where adjacent Region concurrence has been secured and the channel assignments would result in no change to the Region's currently Commission approved channel assignment matrix, the initiating Region may then advise the applicant(s) that

[1] If an applicant's proposed service area or interference contour extends into an adjacent Public Safety Region(s), the application must be approved by the affected Region(s). Service areas shall normally be defined as the area included in the geographical boundary of the applicant, plus three (3) miles. Interference contour shall normally be defined as a 5 dBu co-channel contour or a 60 dBu adjacent channel contour. Other definitions of service area or interference shall be justified with an accompanying *Memorandum of Understanding (MOU)* or other application documentation between agencies, i.e. mutual aid agreements.

their application may be forwarded to a frequency coordinator for processing and filing with the Commission.

h. Where adjacent Region concurrence has been secured, and the channel assignments would result in a change to the Region's currently Commission approved channel assignment matrix, then the initiating Region shall file with the Commission a *Petition to Amend* their current Regional plan's frequency matrix, reflecting the new channel assignments, with a copy of the *Petition* sent to the adjacent Regional chairperson(s).

i. Upon Commission issuance of an *Order* adopting the amended channel assignment matrix, the initiating Regional chairperson will send a courtesy copy of the *Order* to the adjacent Regional chairperson(s) and may then advise the applicant(s) that they may forward their applications to the frequency coordinator for processing and filing with the Commission.

III. CONCLUSION

3. IN AGREEMENT HERETO, Regions 50, 29, 40, 49, 52, and 53 do hereunto set their signatures the day and year written.

Respectfully,
[All signatories to agreement]

Region 50 _____ Date:_____

Region 29 _____ Date: 1-10-2013

Region 40 _____ Date:_____

Region 49 _____ Date:_____

Region 52 _____ Date:_____

Region 53 _____ Date:_____

PANHANDLE
REGIONAL
PLANNING
COMMISSION

December 21, 2012

Frank Mendez, Chairman
Region 50 Regional Planning Committee
8600 Montana, Suite C
El Paso, TX 79925

RE: Region 50 700MHz Plan

Dear Mr. Mendez,

Enclosed you'll find an original signed copy of the Region 52 Letter of Concurrence in support of the Region 50 700MHz Plan.

I'm also enclosing a signed copy of the Inter-Regional Coordination Agreement.

Please be aware that shortly after the first of the year, you'll be receiving a copy of the Region 52 Plan and will be asked to review and then consider giving your concurrence to our region's plan.

Should you have questions or need more information, please contact me. Thank you.

Sincerely,

John Kiehl, Chairman
Region 52, Texas, Lubbock Area
Regional Services Director
Panhandle Regional Planning
Commission
PO Box 9257; Amarillo, TX 79105
(806) 372-3381
jkiehl@theprpc.org

415 West Eighth Avenue
P.O. Box 9257
Amarillo, Texas 79105
(806) 372-3381
(806) 373-3268 (fax)
www.prpc.cog.tx.us

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PANHANDLE
REGIONAL
PLANNING
COMMISSION

Region 50: 700MHz Plan

Attachment N: Letter of Concurrence

Date: 12/21/12

Subject: Region 52 Letter of Concurrence with Region 50 700MHz Plan

Frank Mendez, Chairman
Region 50 Regional Planning Committee
8600 Montana, Suite C
El Paso, TX 79925

Dear Chairman Mendez,

The Region 52 Regional 700MHz Committee is in receipt of Region 50's 700MHz Regional Plan. The purpose of this letter is to inform you that I have reviewed the Region 50 Plan and find it compliant with the guidelines. Further, we find that it does not conflict with Region 52's 700MHz Plan.

Please let this letter serve as Region 52's official written concurrence of Region 50's 700MHz Regional Plan.

Sincerely,

John Kiehl

John Kiehl, Chairman
Region 52, Texas, Lubbock area Regional Planning Committee
Panhandle Regional Planning Commission
Regional Services Director
Email: jkiehl@theprpc.org
Phone: (806)372-3381
Fax: (806)373-3268

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Region 50: 700MHz Plan

Attachment M Inter-Regional Coordination Agreements
(signed copies)

[Inter-Regional Coordination Procedures and Procedures for Resolution of Disputes That May Arise Under FCC Approved Plans]

Note: This form requires original signatures from the designated regions, assuring agreement confirmation of these procedures.

I. INTRODUCTION

1. This is a mutually agreed upon Inter-Regional Coordination Procedures Agreement (Agreement) by and between the 700 MHz Regional Planning Committees of Region 50 and:

- Region 29 – New Mexico
- Region 40 – Texas – Dallas area
- Region 49 – Texas, Austin area
- Region 52 – Texas, Lubbock area
- Region 53 – Texas, San Antonio area

whereas AGREEMENT HERETO and confirmed on the _____ day of _____, in the year of _____.

II. INTER-REGIONAL COORDINATION AGREEMENT

2. The following is the specific procedure for Inter-Regional Coordination which has been agreed upon by Regions 29, 40, 49, 50, 52, and 53, and which will be used by the Regions to coordinate with adjacent Regional Planning Committees.

a. An application-filing window is opened or the Region announces that it is prepared to begin accepting applications on a first-come/first-served basis.
b. Applications by eligible entities are accepted.
c. An application-filing window (if this procedure is being used) is closed after appropriate time interval.
d. Intra-Regional review and coordination takes place, including a technical review resulting in assignment of channels.
e. After Intra-Regional review, a copy of those frequency-specific applications requiring adjacent Region approval, including a definition statement of proposed service area, shall then be forwarded to the adjacent Region(s) for

review.[1] This information will be sent to the adjacent Regional chairperson(s) using the CAPRAD database.

f. The adjacent Region reviews the application. If the application is approved, a letter of concurrence shall be sent, via the CAPRAD database, to the initiating Regional chairperson within thirty (30) calendar days.

III. DISPUTE RESOLUTION

(1) If the adjacent Region(s) cannot approve the request, the adjacent Region shall document the reasons for partial or non-concurrence, and respond within 10 (ten) calendar days via email. If the applying Region cannot modify the application to satisfy the objections of the adjacent Region then, a working group comprised of representatives of the two Regions shall be convened within thirty (30) calendar days to attempt to resolve the dispute. The working group shall then report its findings within thirty (30) calendar days to the Regional chairpersons email (CAPRAD database). Findings may include, but not be limited to:

i. Unconditional concurrence;

ii. Conditional concurrence contingent upon modification of Applicant's technical parameters; or

iii. Partial or total denial of proposed frequencies due to inability to meet co-channel/adjacent channel interference free protection to existing licensees within the adjacent Region.

(2) If the Inter-Regional Working Group cannot resolve the dispute, then the matter shall be forwarded for evaluation to the appropriate subcommittee of the National Regional Planning Council (NRPC), or any subsequent oversight organization. Each Region involved in the dispute shall include a detailed explanation of its position, including engineering studies and any other technical information deemed relevant. The NRPC will, within thirty (30) calendar days, report its recommendation(s) to the Regional chairpersons via the CAPRAD database. The NRPC's decision may support either of the disputing Regions or it may develop a proposal that it deems mutually advantageous to each disputing Region.

g. Where adjacent Region concurrence has been secured and the channel assignments would result in no change to the Region's currently Commission approved channel assignment matrix, the initiating Region may then advise the applicant(s) that

---

[1] If an applicant's proposed service area or interference contour extends into an adjacent Public Safety Region(s), the application must be approved by the affected Region(s). Service areas shall normally be defined as the area included in the geographical boundary of the applicant, plus three (3) miles. Interference contour shall normally be defined as a 5 dBu co-channel contour or a 60 dBu adjacent channel contour. Other definitions of service area or interference shall be justified with an accompanying *Memorandum of Understanding (MOU)* or other application documentation between agencies, i.e. mutual aid agreements.

their application may be forwarded to a frequency coordinator for processing and filing with the Commission.

h. Where adjacent Region concurrence has been secured, and the channel assignments would result in a change to the Region's currently Commission approved channel assignment matrix, then the initiating Region shall file with the Commission a *Petition to Amend* their current Regional plan's frequency matrix, reflecting the new channel assignments, with a copy of the *Petition* sent to the adjacent Regional chairperson(s).

i. Upon Commission issuance of an *Order* adopting the amended channel assignment matrix, the initiating Regional chairperson will send a courtesy copy of the *Order* to the adjacent Regional chairperson(s) and may then advise the applicant(s) that they may forward their applications to the frequency coordinator for processing and filing with the Commission.

III. CONCLUSION

3. IN AGREEMENT HERETO, Regions 50, 29, 40, 49, 52, and 53 do hereunto set their signatures the day and year written.

Respectfully,
[All signatories to agreement]

Region 50 _____ Date: 10/15/2012

Region 29 _____ Date: _____

Region 40 _____ Date: _____

Region 49 _____ Date: _____

Region 52 _____ Date: 12/21/12

Region 53 _____ Date: _____

i. Upon Commission issuance of an *Order* adopting the amended channel assignment matrix, the initiating Regional chairperson will send a courtesy copy of the *Order* to the adjacent Regional chairperson(s) and may then advise the applicant(s) that they may forward their applications to the frequency coordinator for processing and filing with the Commission.

III. CONCLUSION

3. IN AGREEMENT HERETO, Regions 50, 29, 40, 49, 52, and 53 do hereunto set their signatures the day and year written.

Respectfully,
[All signatories to agreement]

Region 50 _____ Date: _____
(Please print name here) _____

Region 29 _____ Date: _____
(Please print name here) _____

Region 40 _____ Date: _____
(Please print name here) _____

Region 49 _____ Date: _____
(Please print name here) _____

Region 52 _____ Date: _____
(Please print name here) _____

Region 53 _____ Date: 12/10/12
(Please print name here) Richard Morales Jr.

Region 50: 700MHz Plan

Attachment N: Letter of Concurrence

Date: 12/6/12

Subject: Region 53 Letter of Concurrence with Region 50: 700MHz Plan

Frank Mendez, Chairman
Region 50 Regional Planning Committee
8600 Montana, Suite C
El Paso, TX 79925

Dear ~~Chairman Mendez,~~ Frank

The Region 53 Regional 700MHz Committee is in receipt of Region 50's 700MHz Regional Plan. The purpose of this letter is to inform you that Region 53's Committee and I have reviewed the Region 50 Plan and find it compliant with the guidelines. Further, we find that it does not conflict with Region 53's 700MHz Plan.

Please let this letter serve as Region 53's official written concurrence of Region 50's 700MHz Regional Plan.

Sincerely,

Richard Morales, Jr., Chairman
Region 53:700 MHz Regional Planning Committee
City of San Antonio
P. O. Box 839966
San Antonio, TX 78283-3966

Region 50: 700MHz Plan

Attachment M Inter-Regional Coordination Agreements
(signed copies)

[Inter-Regional Coordination Procedures and Procedures for Resolution of Disputes That May Arise Under FCC Approved Plans]

Note: This form requires original signatures from the designated regions, assuring agreement confirmation of these procedures.

I. INTRODUCTION

1. This is a mutually agreed upon Inter-Regional Coordination Procedures Agreement (Agreement) by and between the 700 MHz Regional Planning Committees of Region 50 and:

- Region 29 – New Mexico
- Region 40 – Texas – Dallas area
- Region 49 – Texas, Austin area
- Region 52 – Texas, Lubbock area
- Region 53 – Texas, San Antonio area

whereas AGREEMENT HERETO and confirmed on the 3rd day of December in the year of 2012.

II. INTER-REGIONAL COORDINATION AGREEMENT

2. The following is the specific procedure for Inter-Regional Coordination which has been agreed upon by Regions 29, 40, 49, 50, 52, and 53, and which will be used by the Regions to coordinate with adjacent Regional Planning Committees.

a. An application-filing window is opened or the Region announces that it is prepared to begin accepting applications on a first-come/first-served basis.
b. Applications by eligible entities are accepted.
c. An application-filing window (if this procedure is being used) is closed after appropriate time interval.
d. Intra-Regional review and coordination takes place, including a technical review resulting in assignment of channels.
e. After Intra-Regional review, a copy of those frequency-specific applications requiring adjacent Region approval, including a definition statement of proposed service area, shall then be forwarded to the adjacent Region(s) for

review.[1] This information will be sent to the adjacent Regional chairperson(s) using the CAPRAD database.

f. The adjacent Region reviews the application. If the application is approved, a letter of concurrence shall be sent, via the CAPRAD database, to the initiating Regional chairperson within thirty (30) calendar days.

III. DISPUTE RESOLUTION

(1) If the adjacent Region(s) cannot approve the request, the adjacent Region shall document the reasons for partial or non-concurrence, and respond within 10 (ten) calendar days via email. If the applying Region cannot modify the application to satisfy the objections of the adjacent Region then, a working group comprised of representatives of the two Regions shall be convened within thirty (30) calendar days to attempt to resolve the dispute. The working group shall then report its findings within thirty (30) calendar days to the Regional chairpersons email (CAPRAD database). Findings may include, but not be limited to:

i. Unconditional concurrence;

ii. Conditional concurrence contingent upon modification of Applicant's technical parameters; or

iii. Partial or total denial of proposed frequencies due to inability to meet co-channel/adjacent channel interference free protection to existing licensees within the adjacent Region.

(2) If the Inter-Regional Working Group cannot resolve the dispute, then the matter shall be forwarded for evaluation to the appropriate subcommittee of the National Regional Planning Council (NRPC), or any subsequent oversight organization. Each Region involved in the dispute shall include a detailed explanation of its position, including engineering studies and any other technical information deemed relevant. The NRPC will, within thirty (30) calendar days, report its recommendation(s) to the Regional chairpersons via the CAPRAD database. The NRPC's decision may support either of the disputing Regions or it may develop a proposal that it deems mutually advantageous to each disputing Region.

g. Where adjacent Region concurrence has been secured and the channel assignments would result in no change to the Region's currently Commission approved channel assignment matrix, the initiating Region may then advise the applicant(s) that

[1] If an applicant's proposed service area or interference contour extends into an adjacent Public Safety Region(s), the application must be approved by the affected Region(s). Service areas shall normally be defined as the area included in the geographical boundary of the applicant, plus three (3) miles. Interference contour shall normally be defined as a 5 dBu co-channel contour or a 60 dBu adjacent channel contour. Other definitions of service area or interference shall be justified with an accompanying *Memorandum of Understanding (MOU)* or other application documentation between agencies, i.e. mutual aid agreements.

their application may be forwarded to a frequency coordinator for processing and filing with the Commission.

h. Where adjacent Region concurrence has been secured, and the channel assignments would result in a change to the Region's currently Commission approved channel assignment matrix, then the initiating Region shall file with the Commission a *Petition to Amend* their current Regional plan's frequency matrix, reflecting the new channel assignments, with a copy of the *Petition* sent to the adjacent Regional chairperson(s).

i. Upon Commission issuance of an *Order* adopting the amended channel assignment matrix, the initiating Regional chairperson will send a courtesy copy of the *Order* to the adjacent Regional chairperson(s) and may then advise the applicant(s) that they may forward their applications to the frequency coordinator for processing and filing with the Commission.

III. CONCLUSION

3. IN AGREEMENT HERETO, Regions 50, 29, 40, 49, 52, and 53 do hereunto set their signatures the day and year written.

Respectfully,
[All signatories to agreement]

Region 50 _____ Date: 10/15/2012

Region 29 _____ Date: _____

Region 40 Wanda McCarty Date: 12/03/2012

Region 49 _____ Date: _____

Region 52 _____ Date: _____

Region 53 _____ Date: _____

their application may be forwarded to a frequency coordinator for processing and filing with the Commission.

h. Where adjacent Region concurrence has been secured, and the channel assignments would result in a change to the Region's currently Commission approved channel assignment matrix, then the initiating Region shall file with the Commission a *Petition to Amend* their current Regional plan's frequency matrix, reflecting the new channel assignments, with a copy of the *Petition* sent to the adjacent Regional chairperson(s).

i. Upon Commission issuance of an *Order* adopting the amended channel assignment matrix, the initiating Regional chairperson will send a courtesy copy of the *Order* to the adjacent Regional chairperson(s) and may then advise the applicant(s) that they may forward their applications to the frequency coordinator for processing and filing with the Commission.

III. CONCLUSION

3. IN AGREEMENT HERETO, Regions 50, 29, 40, 49, 52, and 53 do hereunto set their signatures the day and year written.

Respectfully,
[All signatories to agreement]

Region 50 _____ Date: 10/15/2012

Region 29 _____ Date: _____

Region 40 _____ Date: _____

Region 49 Ronald G. Megwoon Date: 12/2/2012

Region 52 _____ Date: _____

Region 53 _____ Date: _____

Region 50: 700MHz Plan

Attachment N: Letter of Concurrence

Date: 12/03/12

Subject: Region 40 Letter of Concurrence with Region 50 700MHz Plan

Frank Mendez, Chairman
Region 50 Regional Planning Committee
8600 Montana, Suite C
El Paso, TX 79925

Dear Chairman Mendez,

The Region 40 Regional 700MHz Committee is in receipt of Region 50's 700MHz Regional Plan. The purpose of this letter is to inform you that we have reviewed the Region 50 Plan and find it compliant with the guidelines. Further, we find that it does not conflict with Region 40's 700MHz Plan.

Please let this letter serve as Region 40's official written concurrence of Region 50's 700MHz Regional Plan.

Sincerely,

Wanda McCarley

Wanda McCarley, Chair, Region 40, Texas-Dallas
700 MHz and 800 MHz Public Safety Regional Planning Committees
Tarrant County 911
2600 Airport Freeway, Fort Worth, Texas 76111
phone: 817-820-1185
mobile: 817-988-2408
email: wanda@tc911.org

Region 50: 700MHz Plan

Attachment N: Letter of Concurrence

Date: 12/2/2012

Subject: Region 49 Letter of Concurrence with Region 50: 700MHz Plan

Frank Mendez, Chairman
Region 50 Regional Planning Committee
8600 Montana, Suite C
El Paso, TX 79925

Dear Chairman Mendez,

The Region 49 Regional 700MHz Committee is in receipt of Region 50's 700MHz Regional Plan. The purpose of this letter is to inform you that Region 49's Committee and I have reviewed the Region 50 Plan and find it compliant with the guidelines. Further, we find that it does not conflict with Region 49's 700MHz Plan.

Please let this letter serve as Region 49's official written concurrence of Region 50's 700MHz Regional Plan.

Sincerely,

Ronald G. Mayworm, Chairman
Region 49 Regional Planning Committee
3708 E. 29th Street, #128
Bryan, TX 77802