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Executive Director and
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January 5, 2009

Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Subject: Region 10(Georgia), 700 MHz Plan, WT Docket No. 02-378 and PS Docket No. 06-229

Dear Ms. Dortch:

Attached is the Region 10, 700 MHz Regional Plan for your review and approval. This plan was approved by the Region 10, Regional Planning Committee and it's membership on June 23, 2008. The plan was then distributed to all the adjacent states for their review and concurrence. Copies of each of the adjacent states letter of concurrences are also included in this attachment.

It is our hope this plan will meet with your approval and allow public safety agencies throughout the State of Georgia access to this much needed frequency spectrum.

If you have any questions, please feel free to call me at 404-656-5619

Sincerely,

A handwritten signature in black ink that reads "Jim Mollohan". The signature is written in a cursive, flowing style.

Jim Mollohan
700/800MHz RPC, Region 10 Chairman
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GTA's Mission:

To deliver secure, reliable technology services and solutions, and provide guidance and oversight that lead to sound decisions for Georgia government.

Region 10 - State of Georgia
700MHz Regional Planning Committee (RPC)

Public Safety 700MHz Regional Communications Plan

August 11, 2008

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This document is the 700 MHz Regional Plan for Region 10 (Georgia) describing how the 769 -775 / 799 -805 MHz General Use frequencies will be allocated and implemented in Region 10.

1.0 General Information

INTRODUCTION

The Regional Committee is established under section 90.527 of the FCC's rules and regulations. Region 10 is an independent Committee apart from the Federal Communications Commission with authority to evaluate application for public safety uses of the spectrum allocated under FCC Docket 96-86. Twenty-four (24) MHz of the spectrum is allocated to Public Safety. The Public Safety spectrum consists of TV broadcast channel 63 & 64 paired with channels 68 & 69. This Plan deals with the 12.5 MHz of General Use spectrum for Public Safety.

1.1 Georgia Region 10 Officer Positions

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1.2 Georgia Region 10 Committee Memberships

Membership in the State of Georgia Regional Planning Committee is open to any interested party as defined by FCC Part 90.20a. Committee Officer requirements, voting procedures and membership attendance requirements are listed in the Region 10 Planning Committee by-laws. Appendix A contains the Region 10 By-laws. Appendix B is a list of Region's members, their agency/affiliation and voting status. Voting and operating procedures are described in Section 2.2 of this Plan.

Subcommittees:

Technical – Bob Davis and Tommy Ragan

Outreach - Trudy McDevitt (Chair) and Howell McKinnon

Plan Development - Rita Figaro

1.3 Region 10 Description

Georgia is comprised of 159 counties, which are documented in Appendix C.

The State of Georgia's population for 2005 was approximately 9 Million people. The population percent change from April 1, 2000 to July 1, 2005 was 10.8%.

With the largest land area of any state east of the Mississippi River, the Georgia landscape runs from the mountains in the north and northeast to the coastal plain in the southeast. The most southerly of the Blue Ridge Mountains enter Georgia in the north and northeast. The central piedmont extends south and southeast from the mountains and levels to a coastal plain and coastal flatlands.

Georgia can be divided into six main land regions; the Appalachian Plateau, the Appalachian Ridge and Valley Region, the Blue Ridge, the Piedmont, the Atlantic Coastal Plain, and the East Gulf Coastal Plain. They are presented below, beginning in the southeast along the Atlantic Ocean and moving northwest towards the Appalachian Mountains

Atlantic Coastal Plain: The Atlantic Coastal Plain is part of the Atlantic Plain that stretches from Massachusetts to the Florida peninsula and around the Gulf of Mexico. The Atlantic Coastal Plain lies in southeast Georgia along the state's Atlantic Ocean shoreline. Occupying about 1/4 of Georgia, the Atlantic Coastal Plain is characterized by a flat

landscape. The Okefenokee Swamp lies in the southern part of the Atlantic Plain and in part of the East Gulf Coastal Plain. The rivers in the Atlantic Coastal Plain drain into the Atlantic Ocean.

East Gulf Coastal Plain: The East Gulf Coastal Plain covers almost 1/4 of Georgia in the southwest. Similar to the flat landscape of the Atlantic Coastal Plain, the flat East Gulf Coastal Plain's soil is less sandy. Part of the Okefenokee Swamp lies in the East Gulf Coastal Plain. The great Suwannee River, like all rivers in this land region, flows south into the Gulf of Mexico.

Piedmont: Northwest of the Atlantic Coastal Plain and the East Gulf Coastal Plain, the Georgia Piedmont cuts across the state. The Piedmont is marked by a hilly landscape in the north where it abuts the Appalachian regions at around 1,500 feet above sea level. The land loses elevation to the southeast, where the hills become more gently rolling and the land is only about 400 feet above sea level. The clear difference in landscape where the southeastern edge of the Piedmont meets the Atlantic Coastal Plain and the Gulf Coastal Plain is called the Fall Line. It is along this line that the rivers flowing from the higher elevations of the Piedmont fall to the lower Coastal Plains forming waterfalls and rapids.

Blue Ridge: A small section of the Blue Ridge is found in northeastern Georgia north of the Piedmont. The mountain peaks in the Blue Ridge area rise 2,000 to almost 5,000 feet above sea level; more than 20 above 4,000 feet. These mountains are forested with hardwoods and pine softwoods. The rushing rivers in the Blue Ridge provide hydro-electric power to Georgia. Georgia's highest mountains are found in the Blue Ridge area, including Brasstown Bald, or Mount Etonah, which rises 4,784 feet above sea level.

Appalachian Ridge and Valley Region: The Appalachian Ridge and Valley Region in northwestern Georgia consist of a series of broad, fertile valleys separated by parallel ridges of sandstone.

Appalachian Plateau: Isolated to a small piece of Georgia in the extreme northwestern corner of the state, the Appalachian Plateau stands about 1,800 to 2,000 feet above sea level and consists of narrow valleys and wooded ridges. Lookout Mountain and Sand Mountain are found in this region.

2.0 Notification and Operation

2.1 Notification Process

Eligible entities and interested parties were given 60 days advance notice of the first meeting of the Region 10, 700MHz Regional Planning Committee.

The 700MHz Region 10 Chairperson, Wray Hall set a meeting at the Georgia Public Safety Training Center, Forsyth, GA on January 24, 2002. Notification to interested parties began ninety (90) days prior to the first meeting as well as follow-up reminder announcements were issued. Announcements indicating the date, time and location of the first meeting were sent by mail to the FCC Wireless Telecommunications Bureau and posted in the following industry periodicals: *The Atlanta Journal Constitution*, *FCC Daily Digest*, and the Association of Public Safety Communications Officials, Inc. magazine.

GMAG (Georgia Mutual Aid Group), NENA (National Emergency Number Association, GA Chapter), counties in Georgia as well as all known Public Safety and Public Service Associations were mailed or emailed an announcement of the meeting.

2.2 Operations of the Regional Planning Committee

This committee will use Simplified Parliamentary Procedures to conduct meetings. This method allows for all members to have their voice heard. All decisions will be by clear consensus vote with each Public Safety Agency in attendance having one (1) vote. Additional voting member considerations are listed in the Region 10 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.

Subcommittees have been formed as needed to work on specific issues. For the initial planning of Region 10, three subcommittees were formed.

A minimum of one (1) full committee meeting will be held per year. The Region 10 Chairperson has the authority to call an additional meeting at a time when he/she deems necessary or when he/she deems it 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 Regional 700 MHz Planning Committee, a central location was chosen to host the meeting – The Georgia Public Safety Training Center (GPSTC) in Forsyth, GA.

Beginning two years after Federal Communications Commission's approval of this Regional Plan, the Chairperson shall call a meeting of the Regional Planning Committee to elect a Chair, Vice Chair and Secretary to serve for a two-year term. There is no limit to the number of terms that may be served by officers of the 700 MHz Regional Planning Committee.

If the Chair is unable to serve a complete term, the Vice Chair will serve as Chair until the next 700 MHz Regional meeting. If both the Chair and Vice Chair are unable to serve their full terms, one or the other should make an effort to call a special meeting of the Committee to elect replacements. If for some reason, neither the Chair nor the Vice Chair can call the special meeting; the State or any County within the Region may call for a special meeting, giving at least 5 days notice, to elect replacements.

A chronological list of meetings, minutes, meeting announcements and table outlining The State of Georgia's progress in 700 MHz developments is located in Appendix D of this document.

2.3 Major Elements of the Plan

The major elements of this Plan follow the National Coordination Committee (NCC) guidelines.

The major elements of this Plan are (1) the declaration that this is the Region 10 Plan, (2) that Region 10 encompasses the entire State of Georgia, (3) the administration and operation of the committee, (4) 700 MHz interoperability, (5) General Use spectrum management and (6) allocation requests, (7) dispute resolution, (8) adjacent Region coordination and (9) the appendices with the channel allotment being Appendix G.

3. Regional Plan Administration

3.1 Procedure for Requesting Spectrum Allotments

A. General Information

Upon FCC approval of this Plan, Region 10 will announce to the Region that 700 MHz public safety channels are available in the Region and that channels have been assigned in pool allotments to counties within the Region for usage by Public Safety entities. The general usage spectrum may be used by all Local government entities and State agencies only if the State Channels have been depleted or not available in that county.

All available methods will be used to notify public safety entities of channel availability in the Region (see Section 2.1). All spectrum requests will be considered on a first come, first served basis. Region 10 supports the National Coordination Committee Pre-Assignment Rules and Recommendations listed in Appendix F, and will use these guidelines as a template to determine if an application submitted to the Regional Planning Committee meets Regional Planning standards. It is recommended that applicants familiarize themselves with these recommendations prior to submitting applications for Region 10, 700 MHz public safety system implementation. In order to maintain accurate records in the CAPRAD database, applicants will provide Region 10 with physical copies of their application along with associated documentation for Regional Planning Committee (RPC) review. The RPC will enter the FCC 601 Form into the CAPRAD database before the application is forwarded to the FCC certified coordinators specified by the applicant..

In general and unless otherwise noted, the Region 10 Regional Planning Committee will adhere to the published National Coordination Committee Implementation Guidelines for 700 MHz Public Safety Regional Planning Committees.

B. Spectrum Re-Usage

Region 10 utilized the CAPRAD pre-coordination database system to maximize channel re-usage in the 700 MHz band. Since the spectrum is reused, it is hoped that each system will use the minimum power necessary to meet their needs. If power and ERP seems excessive to the committee, a reduction in power or antenna gain may be requested to minimize interference and increase spectrum efficiency to other co-channel and adjacent channel users.

C. Application Submission

To request channels from Region 10, a full application package must be submitted to the CAPRAD database at <http://caprad.teqservices.com/cp/index.jsp>. The application must include: the current FCC Form (currently the 601); a short description of the proposed system; a justification for the additional spectrum; a coverage prediction map using the current version of TIA/EIA TSB 88 guidelines; maps showing all interference predicted in the proposed system; documents indicating agency-funding commitments sufficient to fund the development of the proposed system(s); a list of 'give-back' channels, if applicable and the Region 10 supplemental form. Exceptions in accepting applications from qualified applicants will be made by the Region if applicants have demonstrated a need for 700 MHz channels and cannot access the CAPRAD database.

D. Application Distribution / Coordination

The Chair will distribute the application request to all other necessary agencies with allotments in the Plan for review and approval. Absent a protest, the Regional Planning Committee will approve the application and (if applicable), 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.

E. Allocation Disputes

An agency may protest a proposed system within 30 calendar days of the original distribution. Protests will only be considered if the allocation does not conform to Plan criteria or objecting agency or the Chairperson can show harmful interference is likely based on the information submitted by the agency requesting the new allocation. If an agency with pre-licensed/Region approved co-channel or adjacent channel allocations objects to a proposed allocation due to concerns about potential interference, the objecting agency may request field tests be done to confirm or refute interference potential. The completion of these field tests and the results will be required for Regional application approval. Coverage area service/interference contours of the proposed system(s) should meet values designated in Section 6.1 of this document. Any costs associated with field tests or any other requirements to obtain Region 10 Plan approval are the responsibility of the agency submitting application to Region 10.

The parties involved must resolve the allocation dispute and notify the Region Chair within 30 calendar days. If the parties involved cannot resolve the allocation dispute within that timeframe, then a special full Committee meeting will be scheduled to consider and vote on the protest. *The burden of proof will be on the protesting party.* If approved, the application will be submitted through the CAPRAD database to the applicant's chosen FCC-certified frequency coordinator for processing.

F. Relinquishing Spectrum

When applying for new 700 MHz channels, the Regional Planning Committee encourages applicants to relinquish some amount of currently licensed spectrum ("give back channels") and make that spectrum again available for use within the Region. This is meant to be similar to the 800 megahertz spectrum which requires submission of a plan for the abandonment of their currently licensed frequencies in the lower bands (512 MHz and below). Entities with existing licensed 800 MHz systems that are requesting 700 MHz channels for system expansion will not fall under this requirement.

When an applicant submits a request for 700 MHz spectrum, a "Give Back Plan" (or abandonment plan) should accompany the application. This Plan should show what frequencies would be vacated, a time line for the transition and what channels are being retained. If an existing channel is being retained for interoperability purposes, please identify that channel in the "Give Back Plan" (or abandonment plan).

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

The time frame allowed for phasing into 700 MHz and out of the lower currently licensed bands will be considered on a case by case basis by the regional planning committee. Generally one year will be considered acceptable in most cases, with two years as a general maximum. Any agency requiring more than one year shall provide documents stating the reasons for the delay, and give the estimated time of completion.

Frequency "give back" requirements shall hold true for regional systems where system constituents maintain discrete licenses for their own internal operations. In this case, constituent political subdivisions or agencies are required to participate in the "give back" plan. Should a political subdivision or agency act as host of a regional system, both the host agency and the constituent agencies should participate in the "give back" Plan.

Frequencies used for non-voice critical infrastructure support functions [Supervisory Control and Data Acquisition (SCADA) systems] as well as frequencies that are used for interoperability with other regional, state or national agencies that rely on one certain frequency band for emergency operations, such as, but not limited to **"Georgia Intrastate Coordination Channels (ICC) Mutual Aid" (154.905/154.935 MHz / Intercity Police Channel (ICP) base-to-base 155.370 MHz)**, the **"National Law Enforcement Emergency Channel" (155.475 MHz)**, **"Georgia Fire Mutual Aid" (154.280)** or **"Georgia EMS Mutual Aid" (155.280 and 155.340 MHz)**, as well as other mutual aid or interoperable channels may be exempted by the Committee as candidates for "give back" (abandonment). Frequencies used by an applicant for such purposes, as well as the specific use and a network/ system diagram, must be specified in supportive documentation supplied with the application to enable the Regional Planning Committee to consider any possible exemption.

In cases of hardship or failure to implement, the Regional Planning Committee will consider, on a case-by-case basis, extensions not to exceed five years from date of license issuance, of the "give back" timetable. The dispute arbitration process in Section 3.6 of this document shall apply should there be protest.

G. Lower Power "Campus Eligible" Digital General Use Channels:

With the implementation of 700 MHz public safety spectrum throughout Region 10, there may be opportunities for increased channel reuse when developing radio systems for "campus" type operations. Examples of those who may capitalize on this opportunity include hospitals, stadiums, parks or places of public gathering, public universities, transit systems, correctional facilities and mental health facilities. While these channels have been designated in county pool allotments with proper designation, they do not enjoy the benefits of countywide channels in that they are not cleared for usage over a wide area. In many instances, facilities require a smaller or more specific geographical coverage area than assumed in the initial channel packing plan and may be able to be reused more efficiently. These "campus" type systems also, in many cases, require in-building or confined space/ tunnel radio coverage or communications along a linear pathway, such as a maintenance or right of way. These channels may also be used for "vehicular repeater"

(MO3) operation. Public safety channels can be allotted to this type operation in a Region and can lead to effective system development, along with increased spectral efficiency, if power levels and Area of Protection (AOP) of the area are taken into account in system planning. These parameters must be established appropriate to the area of coverage. These channels are NOT eligible to be utilized throughout the county they are licensed in but to a specific geographic area, unless otherwise licensed. The Low Power channel will be licensed on an as need or first come, first serve basis. The following criteria must be adhered to when requesting channels from Region 10 for operations of this type:

The 40dBu service contour of the proposed system must not exceed an area more than 5 miles or 8 Km from the proposed service area. When this 5-mile distance extends to an adjacent Region, the applicant must obtain concurrence from the adjacent Region. Reduced external antenna heights, along with reduced ERP, directional antenna, distributed antenna systems, down tilt, radiating "leaky coax," are all tools that should be utilized in the development of these type systems. Region 10 will ensure the development of these types of systems will in no way interfere with co-channel or adjacent channel users within Region 10 or Region 10's adjacent Regions. The Chairperson, or a majority of the members of the Region, has the authority to request and require engineering studies from the applicant that indicate no harmful interference will be introduced to any co-channel or adjacent channel existing user prior to application approval. For 25 kHz co-channel assignments, the 50dBu service contour of the proposed stations will be allowed to extend beyond the defined service area for a distance no greater than 2 miles. An adjacent/alternate 25 kHz channel shall be allowed to have its 60 dB (50,50) contour touch, but not overlap the 40dB service (50,50) contour of an adjacent/alternate system being protected. Evaluations should be made in both directions to ensure compliance. The approval of systems utilizing county allotment channels labeled "Campus", are subject to approval of the Regional planning committee. They are the final authority on parameters associated with "campus" type operations.

When Region 10 receives an application for low power fixed use and the proposed service contour encroaches onto an adjacent Region prior to the channel allotted to the Region being implemented in a specific system, the application must be modified so the service contour does not encroach into the adjacent Region or the applicant must supply the Region 10 700 MHz Regional Planning Committee with written concurrence from the adjacent Region permitting the original design.

3.2 Procedure for Frequency Coordination

The Region 10 Planning Committee will adhere to the 700 MHz General Use channel sort as shown on the CAPRAD database for narrowband General Use channels. (See Appendix G). Region 10 will participate in the CAPRAD database and keep the Regional Plan and current frequency allotment/allocation information on the database. The Region 10 Regional Planning Committee has both the ability to accept recommendations from the committee and, if approved, the authority to change the original frequency allotment. In order to keep the most effective frequency allotments within Region 10, an annual review of the allotments will be made at one of the scheduled meetings by the full committee and recommended changes to the Plan will be voted on. The majority of members in attendance at a meeting of the full Regional Planning Committee must approve any changes to the Regional allotments. If at any time a system is allocated channels within Region 10 and the system cannot be developed within the agreed upon guidelines (slow

growth), the channels will be returned to the county pool allotments they originated from and again be available to other agencies in the Region. If Plan modifications are approved, the Chairperson will, if necessary, obtain adjacent Region approval and file a Plan amendment indicating the approved changes with the Federal Communications Commission.

3.3 Allocation of Narrowband “General Use” Spectrum

The Region 10 Technical & Implementation Subcommittee recommends that allotments be made on the basis of one 25 KHz channel for every two (2) voice channel requests and one 12.5 KHz channel for each narrowband data channel request. This recommendation is approved by the full Committee and is part of this Plan. Allotments will be made in 25 KHz groups to allow for various digital technologies to be implemented. All agencies requesting spectrum during the initial filing window (see Section 3.1) will be allocated channels if Plan requirements are met. Agencies using Frequency Division Multiplexing (FDMA) 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. In most cases, this will require the geographic separation of each 12.5 KHz adjacent channel. In order to promote spectrum efficiency, Region 10 will encourage that systems allocated 25 KHz channel blocks will utilize the entire channel and not “orphan” any portions of a system designated channel. See section 7.3 Orphaned Channels.

3.4 Low Power Analog Eligible Channels

The FCC in the 700 MHz band plan set aside channels 1 - 8 paired with 961 – 968 and 949 – 958 paired with 909 – 1918 for low power use for on-scene incident response purposes using mobiles and portables subject to Commission-approved Regional Planning Committee Regional Plans. Transmitter power must not exceed 2 watts (ERP).

Channels 9 –12 paired with 969 – 972 and 959 – 960 paired with 1919 – 1920 are licensed nationwide for itinerant operation. Transmitter power must not exceed 2 watts (ERP). These channels may operate using analog operation. To facilitate analog modulation, this Plan will allow aggregation of two 6.25 KHz channels for 12.5 kHz bandwidth.

On scene temporary base and mobile relay stations are allowed (to the extent FCC rules allow) antenna height limit of 6.1 meter (20 feet) AGL (Above Ground Level). Vehicular repeater operation (MO3) is also allowed.

However, users are encouraged to operate in simplex mode with the least practical amount of power to reliably maintain communications whenever possible. 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. The use of EIA/ TIA-102, Project 25 Common Air Interface is required when using a digital mode of operation.

In its dialog leading up to CFR §90.531 allocating the twenty-four low power 6.25 kHz frequency pairs (of which eighteen fall under RPC jurisdiction)¹, the Federal Communications Commission (FCC) suggested that there is a potential for multiple low power applications, and absent a compelling showing, a sharing approach be employed rather than making exclusive assignments for each specific application as low power

operations can co-exist [in relatively close proximity] on the same frequencies with minimal potential for interference due to the 2 watt power restriction.

Whereas advantages exist in not making assignments, the reverse is also true. If, for example, firefighters operate on a specific frequency or set of frequencies in one area, there is some logic in replicating that template throughout the Region for firefighter equipment. If there are no assignments, such a replication is unlikely. In seeking the middle ground with positive attributes showing up both for assignments and no assignments, we recommend the following regarding assignments associated with the eighteen (18) low power channels for which the Regional Planning Committee has responsibility:

Generic - Channel #'s 1-4 and 949-952 are set aside as generic base channels for use by public safety agencies operating within Region 10, and the complementary mobile channels # 961-964 and 1909-1912 are set aside as generic mobile channels also for use by public safety agencies likewise operating within Region 10.

Fire/ EMS/ Consequence Management - Channel #'s 5-8 are designated as Fire Protection/ Emergency Medical and Consequence Management base channels for licensing and exclusive use by the Fire/Emergency Medical disciplines, and the complementary mobile channel #'s 965-968 are set aside as Fire/Emergency Medical and Consequence Management mobile channels also for licensing and exclusive use by the Fire/Emergency Medical disciplines.

Law Enforcement/ Crisis Management - Channel #'s 953-956 are set aside as Law Enforcement/Crisis Management base channels for licensing and exclusive use by the Law Enforcement discipline, and the complementary mobile channel #'s 1913-1916 are set aside as Law Enforcement/Crisis Management mobile channels also for licensing and exclusive use by the Law Enforcement discipline.

Multidisciplinary Joint Public Safety Operations - Channel #'s 957-958 are set aside as Multidisciplinary Joint Public Safety Operations base channels for licensing and the complementary mobile channel #'s 1917-1918 are also set aside as Multidisciplinary Joint Public Safety Operations 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 at any given operational area. Again, Region 10 Regional Planning Committee will require all 700 MHz users to have the capability to access ALL of the NCC approved interoperability channels in both duplex and simplex modes.

3.5 Wideband Waiver Review

The Second Report and Order provides for wideband operations on a waiver basis. Wideband operations may be permitted in the consolidated narrowband portion or the internal public safety guard band portion of the public safety broadband spectrum. Under

certain circumstances public safety entities may request a waiver to operate in the upper 1.25 megahertz of the public safety broadband spectrum. All wideband operations shall be secondary to the primary narrowband or broadband operations, as applicable. Wideband licensees operating under a secondary status pursuant to a waiver shall be required to resolve any harmful interference caused to primary operations including modifying or terminating wideband operations.

3.5.1 Wideband Application Procedures

Requests for a waiver for wideband operations shall be considered by the RPC on a case by case basis. Unless prohibited by FCC rules, any frequencies within the consolidated narrowband portion or the internal public safety guard band portion may be utilized for secondary wideband operations.

Counties and adjacent regions that are allocated specific narrowband general use channels that are impacted by secondary wideband waivers will be notified of the secondary application. The Sheriff or the County Administrator of the impacted county will be requested to provide the RPC an update of any implementation plans for construction of facilities on the specified frequencies.

The RPC will approve all waiver requests that do not disrupt plans that are underway to utilize the requested frequencies for other purposes within five years.

Upon determination that the requested frequencies are not included in an implementation plan for other purposes within five years, a letter from the RPC or state licensee, as applicable, confirming that the proposed wideband deployment will not disrupt any regional or state planning efforts that are underway will be issued.

3.5.2 Applicable FCC Rules

The following FCC Rules pertaining to wideband waiver operation were adopted in the Second Report and Order.

§ 90.1432 Conditions for waiver to allow limited and temporary wideband operations in the 700 MHz Public Safety spectrum.

(a) Wideband operations in the 700 MHz Public Safety spectrum. Wideband operations are prohibited in the public safety allocation of the 700 MHz band public safety spectrum except where the Commission has granted a waiver pursuant to §§ 1.3 and 1.925 of this chapter and subject to the additional conditions and requirements specified below. Grants of waiver are restricted to the deployment of a wideband system in the consolidated narrowband portion or the internal public safety guard band portion of the public safety broadband spectrum. Where spectrum in the narrowband segment or internal guard band segment is unavailable for wideband operations, public safety entities may request a waiver to operate in the upper 1.25 megahertz of the public safety broadband spectrum.

(b) Any public safety entity seeking to conduct wideband operations within the public safety allocation must file a request for waiver that is

accompanied by an application for authorization and includes the following information:

(1) a letter from the Public Safety Broadband Licensee, confirming that the proposed wideband deployment is not inconsistent with the broadband deployment plan for the affected or adjacent service areas; and

(2) a description of the conditions or transition requirements, if any, agreed to between the applicant and the Public Safety Broadband Licensee.

(c) Additional requirement for wideband operations in the narrowband segment and Internal Guard Band. If an applicant seeks permission to deploy wideband systems in the narrowband segment, its waiver request must also include a letter from the appropriate regional planning committee or state licensee confirming that the proposed wideband deployment will not disrupt any regional or state planning efforts that are underway.

(d) Additional requirements and conditions for wideband operations in the broadband segment. Permission to conduct wideband operations in the broadband segment will be granted only where spectrum in the narrowband segment or the internal guard band is unavailable for wideband operations. In no event will permission be granted to conduct wideband operations in geographic areas scheduled for broadband deployment within the first three years of the build-out plan for the Shared Wireless Broadband Network.

(1) An applicant seeking permission to deploy wideband systems in the broadband segment must have first issued a request for proposal (RFP) that permitted interested parties to submit broadband proposals that are technically consistent with the Shared Wireless Broadband Network.

(2) A request for waiver that seeks permission to deploy wideband systems in the broadband segment must include the following information:

(i) a substantially supported, detailed technical showing demonstrating that insufficient spectrum in the narrowband segment or the internal guard band is available to support the desired wideband operations;

(ii) a showing that rejected responses to the required broadband network RFP were more costly, provided less coverage as measured by throughput at the network edge, or were otherwise inferior to the accepted wideband proposal; and

(iii) a detailed plan for integration of such wideband system into the Shared Wireless Broadband Network. This plan must specify how and by what date the wideband applicant will integrate its proposed wideband system into Shared Wireless Broadband Network and must include a certification that the public safety entity will not seek reimbursement for any costs involved in converting the wideband system to Shared Wireless Broadband Network upon completion of that network in the applicant's geographic area.

(3) Authority to conduct wideband operations in the broadband segment of the public safety spectrum will be subject to the following conditions:

(i) All devices operating on the wideband system must be designed to interoperate with Shared Wireless Broadband Network;

(ii) All waivers will expire automatically upon the Upper 700 MHz D Block licensee's initiation of service in the service area covered by such waiver.

(e) Secondary status of wideband operations. All wideband operations permitted under this section shall be secondary to the authorized narrowband or broadband applications, as applicable.

(f) License terms for wideband operations. Any secondary license to conduct wideband operations in the public safety spectrum shall have a term of no more than five years.

(g) Renewal of wideband authorization. Any request for renewal of an initial authorization to conduct wideband operations shall be filed not less than 180 days prior to expiration of the license. All renewal requests must include a showing that continued operation of the wideband system is in the public interest and must be accompanied by a letter from the Public Safety Broadband Licensee confirming that continuing wideband operations are not inconsistent with the broadband deployment plan for the affected or adjacent service areas. The license term for any renewal of a license granted under the waiver provisions herein shall not exceed three years. No more than one license renewal will be granted.

(h) Grandfathered wideband STA operations. Upon request, the Public Safety and Homeland Security Bureau may grant a public safety entity that has constructed, deployed, and was operating a wideband system as of July 31, 2007 pursuant to STA to extend the STA grant for periods of no more than 180 days until, but not later than, six months following the selection of the Public Safety Broadband Licensee.

3.6 Intra-Regional Dispute Resolution

In the event an agency disputes the implementation of this Plan or the Federal Communications Committee approval of this Plan or parts of this Plan, the agency must notify the Chair of the dispute in writing. This section does not apply to protests over new spectrum allocations (see Section 3.1). The Chair will attempt to resolve the dispute on an informal basis. If a party to the dispute employs the Chair, then the Vice Chair will attempt resolution. In such cases, the Chair shall be deemed to have a conflict of interest and will be precluded from voting on such matters. If after 30 days the dispute is not resolved, the Chair (or Vice Chair) will appoint a Dispute Resolution Committee consisting of two members from the State of Georgia governmental agencies and at least five members from different counties in Region 10. That committee will select a Chair to head the committee and a secretary to document the proceedings.

The Regional Plan Chair (or Vice Chair) will represent the Region in presentations to the Dispute Resolution Committee. The Committee will hear input from the disputing agency, any effected agencies and the Region Chair. The Committee will then meet in executive session to prepare a recommendation to resolve the dispute. Should this recommendation not be acceptable to the disputing agency/agencies, the dispute and all written documentation from the dispute will be forwarded to the National Regional Planning Oversight Committee, a subcommittee of the National Public Safety Telecommunications Committee (NPSTC) for review. As a last resort, the dispute will be forwarded to the Federal Communications Commission for final resolution.

4.0 Priority Matrix

In the event that spectrum allocation requests conflict and cannot all be accommodated, the following matrix will be used to determine priority for allotment. This matrix will only be used if two requests are received in the same time frame for the same number of channels. Otherwise, the first come first served procedure of Section 3.1 will be used.

- **Service (Maximum score 250 points)**

Priority is given to users fundamentally involved with the protection of Life and Property Police, fire, EMS, Rescue, EMA, combined systems, multi-jurisdictional systems, etc.

- **Inter-system & Intra-system interoperability (Maximum score 100 points)**

How well the proposed system will be able to communicate with other levels of government and services during an emergency on “regular” channels, not the I/O channels. Interoperability must exist among many agencies to successfully accomplish the highest level of service delivery to the public during a major incident, accident, natural disaster or terrorist attack. Applicants requesting 700 MHz spectrum shall inform the Region of how and with whom they have been achieving interoperability in their present system.

The applicant shall stipulate how they will accomplish interoperability in their proposed system (gateway, switch, cross-band repeater, console cross patch, software defined radio, or other means) for each of the priorities listed below:

1. Disaster and extreme emergency operation for mutual aid and interagency communications.
2. Emergency or urgent operation involving imminent danger to life or property.
3. Special event control, generally of a preplanned nature (including task force operations).
4. Single agency secondary communications.
5. Routine day-to-day non-emergency operations.

- **Loading (Maximum score 100 points)**

Is the system part of a cooperative, multi-organization system? Is the application an expansion of an existing 800 MHz system? Have all NPSPAC channels been assigned (where technically feasible)? A showing of maximum efficiency or a demonstration of the system’s mobile usage pattern could be required in addition to loading information. Based on population, number of units (if number of units, are they take home, how many per officer), what are the talk groups?

- Spectrum Efficient Technology (Maximum score 200 points)

How spectrally efficient is the system's technology? Trunked systems are considered efficient "as well as any technological systems feature, which is designed to enhance the efficiency of the system and provide for the efficient use of the spectrum."

- Systems Implementation Factors (Maximum score 200 points)

Applicants should submit some form of proof of financial commitment, accompanied by a RFP (Request for Proposal) outlining the design of the proposed system and detailing the development of the requested channels will be required to be submitted to the Regional Planning Committee prior to approval.

- Geographic Efficient (Maximum Score 50 points)

The ratio of subscriber units to area covered and the channel reuse potential are two subcategories. "The higher the ratio (mobiles divided by square miles of coverage) the more efficient the use of the frequencies. Those systems which cover large geographic areas will have a greater potential for channel reuse and will therefore receive a high score in this subcategory."

- Givebacks (Maximum score 100 points)

Consider the number of channels given back

Consider the extent of availability and usability of those channels to others.

If there are more applicants than frequencies available for a given area, the above criteria will be used to grade each application before the committee.

This process, if required, will be treated as a dispute and the procedures outlined in Section 3.6 using the above criteria will be used to allocate the frequencies.

5. Process for Handling Unformed Regions

There are no unformed adjacent Regions to Region10 and Letters of Concurrence have been received from all five adjacent Regions.

6. Coordination with Adjacent Regions

The Regions that are adjacent to or within seventy (70) miles of Region 10 are listed below:

Region 1	State of Alabama	Border
Region 9	State of Florida	Border
Region 31	State of North Carolina	Border
Region 37	State of South Carolina	Border
Region 39	State of Tennessee	Border

Region 10 has coordinated channel allocations and received concurrence with all its bordering Regions by providing copies of the Region 10 Plan (including channel allotments) to each adjacent Region using the CAPRAD database and by mailing hard copies of the Plan to the adjacent Region's Chairperson.

In seeking Regional concurrence, the Chairperson has given copies of this Plan to the Chairperson of Region 1, 9, 31, 37, 39. The Region 10 Plan will also be available for viewing by all Regions via the CAPRAD 700 MHz database. The CAPRAD pre-coordination database shows those channels available that will not interfere with Region 10 allotments or systems.

The CAPRAD database and its associated packing Plan provides minimum channel allotments for all of Region 10'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 assigned in their borders.

Therefore, adjacent Regions 1, 9, 31, 37, 39 should all be able to satisfy voice and narrowband data requests along their border areas with Region 10. However, if an adjacent Region has difficulties satisfying intra-regional requests due to channel allocation within Georgia, 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 frequency allotment list will be based on an 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 coverage area and minimum levels in the coverage area of other co-channel users. Coverage area is normally the geographical boundaries of the Agency(s) served plus five miles area beyond.

Systems should be designed for minimum signal strength of 40 dB μ in the system coverage area while minimizing signal power out of the coverage area. TIA/EIA TSB88-A (or latest version) will be used to determine harmful interference assuming 40 dB μ , or greater, signal in all systems coverage areas. This may require patterned antennas and extra sites compared to a design that assumes noise limited coverage. Region 10 complies with National Coordination Committee recommendations listed in Appendix K of the Regional Planning Committee Guidelines published by the National Coordination Committee (NCC).

7.2 Spectrum Efficiency Standards

Initial allotments will be made on the basis of 25 kHz channels. To maximize spectrum utilization, prudent engineering practices and receivers of the highest quality must be used in all systems. Given a choice of radios to choose from in a given technology family, agencies should use the units with the best specifications. This Plan will not protect agencies from interference if their systems are under-constructed (i.e.; areas with the established service area having minimum signal strength below 40 dBu), or the systems utilize low quality receivers. The applicant's implementation of best engineering practices will be encouraged by the Regional Planning Committee at all times.

It is the eventual goal of the FCC and the public safety community for radio equipment to meet the requirement of one voice channel per 6.25 KHz of spectrum. *When applying for channels within Region 10, the applicants should acknowledge the deadline for converting all equipment to 6.25 kHz or 6.25 kHz equivalent technology is January 31, 2017 as set forth in 90.535(d)(3).* For narrowband mobile data requests, one mobile data channel will consist of two (2) 6.25 KHz channels/one (1) 12.5 KHz channel. Narrowband 6.25 KHz channels can be aggregated for data use to a maximum bandwidth of 25 KHz. As 6.25 KHz migration evolves, an agency that creates any “orphaned” 6.25 KHz channels should realize that these channels could be allocated to nearby agencies requesting channels to maintain consistent grouping and utilization of 25 KHz blocks within the Region.

Region 10 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. Loading criteria can also be achieved in multi-agency systems that will allow greater throughput for all agencies involved than that which could be achieved individually.

7.3 Orphaned Channels

The narrowband pool allotments with Region 10 will have a channel bandwidth of 25 kHz. These 25 kHz allotments have been characterized as “Technology Neutral” and flexible enough to accommodate multiple technologies utilizing multiple bandwidths. If agencies choose a technology that requires less than 25 kHz channel 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 (if possible) be used at another location within the county area where it was originally approved, if it meets co- and adjacent channel interference criteria. Region 10 will utilize “county areas” as guidelines for channel implementation with the area of Region 10. The definition of “county area” in this Plan is the geographical/political boundaries of a given county, plus a distance of up to 5 miles outside of the county or jurisdictional boundary.

If the channel, or a portion of a channel, is being moved into a “county area” that is within 30 miles of an adjacent Region, Region 10 will receive concurrence from the affected Region. By extending the “county area” by a designated distance, it is anticipated this will increase the possibility that orphaned channel remainders will still be able to be utilized within the “county area”, and reduce the potential for channel remainders to be forced to lay dormant and used with a county channel allotment. These movements will be documented on the CAPRAD database.

If the “orphaned channel” remainder does not meet co-channel and adjacent channel interference criteria by moving it within the “county area” as listed above, and it is determined by the Region that the “orphaned channel” cannot be utilized in the Region without exceeding the distance described in the “county area” listed above, Region 10 will submit a Plan amendment to the FCC to repack the channel to a location where its potential use will maintain maximum spectral efficiency. This FCC Plan amendment will require affected Region concurrence.

When in the best interest of public safety communications and efficient spectrum use within the Region, the Region 10 Regional Planning Committee shall have the authority to move orphan channel allotments, and/or co-/adjacent-channel allotments affected by the movement of orphan channels, within its “county areas”, which are defined above. This is to retain spectrum efficiency and/or minimize co-channel or adjacent channel interference between existing allotments within the Region utilizing disparate bandwidths and technologies.

7.4 System Implementation

This section addresses incumbent high power and low power broadcast or translator TV stations in the state, along with the “DTV” transition. Agencies deploying 700MHz systems prior to the February 17, 2009 TV transition deadline must protect incumbent full power TV stations as outlined in 90.545 and 90.309. See Appendix I for a list of TV stations that impact Region 10.

7.5 Channel Loading

7.5.1 Loading Tables Voice Channels

Emergency		Non-Emergency	
Channels	Units/Channel	Channels	Units/Channel
1-5	70	1-5	80
6-10	75	6-10	90
11-15	80	11-15	105
16-20	85	16-20	120

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

7.5.2 Traffic Loading Study for Narrowband Systems

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

7.5.3 Expansion of Existing 800 MHz Systems

Existing 800MHz systems that are to be expanded to include the 700MHz frequency spectrum will have to meet the requirements of the FCC and both Region 10's 800 MHz

NPSPAC and 700 MHz Plans. If the two Region 10 Plans are in conflict, the Plan that gives the applicant the greater flexibility will govern.

8. Interoperability Channels

8.1 Introduction

The FCC definition of interoperability is taken from 98-191 paragraph 76:

“Interoperability – An essential communications link within public safety and public service wireless communications systems which permits units from two or more different entities to interact with one another and to exchange information according to a prescribed method in order to achieve predictable results.”

The ability for agencies to effectively respond to mutual aid requests directly depends on their ability to communicate with each other. Mutual aid should be encouraged among agencies. This Plan seeks to facilitate the communications necessary for effective mutual aid.

The Georgia Technology Authority (GTA) will administer the 700MHz interoperability channels via the State Interoperability Executive Committee (SIEC) under the National Coordination Committee’s (NCC) guidelines. The Region 10 700 MHz Regional Planning Committee will work with the State of Georgia’s SIEC.

8.2 Tactical Channels

Channels are available by virtue of statewide license call sign WPTZ768 (State of Georgia.)

All mobile and portable units operating under this Plan and utilizing 700 MHz channels must be programmed with the minimum number of channels called for either in NCC guidelines or as the State of Georgia’s SIEC specifies. The channel display in these radios will be in accordance with the NCC and SIEC guidelines that have common alphanumeric nomenclature to avoid any misinterpretation of use within Region 10.

8.3 Deployable Systems

Region 10 supports the use of conventional and trunked deployable systems capable of using FCC designated / NCC recommended interoperability tactical channels. State of Georgia’s SIEC will develop details for deploying these systems.

8.4 Monitoring of Calling Channels

700MHz licensees will monitor interoperable calling channels in accordance with guidelines developed by the SIEC.

8.5 Incident Command System Standard

Our region supports FCC and NCC recommendations for the National Incident Management System.

9. Future Planning

9.1 Database Maintenance

The CAPRAD pre-coordination database has developed channel allotments in each county within Georgia utilizing the U.S. Census Date, 2000, height above terrain(HAAT) and public safety use curves generated by the Public Safety Wireless Advisory Committee(PSWAC) to provide spectrally efficient frequency allotments. Region 10 will continue to use the CAPRAD pre-coordination database for other 700MHz spectrum as it becomes available.

9.2 Inter-Regional Dispute Resolution Process

In the event that a dispute between Region 10 and an adjacent Region or Regions, regarding spectrum allocations or implementation, which cannot be resolved within 60 days , the parties to the dispute will request a hearing by the National Regional Planning Oversight Committee.

9.3 Amendment Process

Amendments to the Region 10 Plan will be made at Region 10 RPC meetings. All amendments will be voted on and passed or rejected by a simple majority vote. The Chairman or his designee will make the appropriate changes to the Plan and notify the adjacent Regions for their concurrence. Once the concurrences are received from the adjacent Regions, the Plan will be certified and filed, by the Chairperson, with the FCC for approval. Electronic filing will be the preferred method.

9.4 Meeting Announcements

Meeting announcements will be made per the Region 10 By Laws. Region 10 will utilize the list servers, Public Notices issued by the FCC, fax notification, email to individuals, association, agencies and vendors, verbal announcements at meetings and/or appropriate publications.

10.0 Certification

I hereby certify that all planning committee meetings, including subcommittee or executive committee meetings were open to the public. A summary of the deliberations of the Committee pursuant to adopting this Plan can be found in Appendix D, meeting attendance, agendas and other events.



Jim Mollohan
Chairman, 700 MHz Region 10 RPC
June 23, 2008

Appendix A

REGION 10 BYLAWS

**THE BYLAWS OF REGION 10 – GEORGIA
700 MHz REGIONAL PLANNING COMMITTEE
April 10, 2003**

ARTICLE 1

NAME & PURPOSE

- 1.1 Name and purpose. The name of this Region shall be Region 10 – Georgia. Its primary purpose is to foster cooperation, planning, development of regional plans and the implementation of these plans in the 700 MHz Public Safety Band.

ARTICLE II

MEMBERS

For purposes of this Article, the term “member,” unless otherwise specified, refers to both voting and non-voting members.

- 2.1 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.

Voting Members. Voting members shall consist of one representative from any single agency engaged in public safety eligible to hold a license under 47 CFR 90.20, 47 CFR 90.523 or 47 CFR 2.103. Except that a single agency shall be allowed no more than one vote for each distinct eligibility category (e.g. police, fire, EMS, highway) within the agency’s organization or political jurisdiction. In voting on any issue the individual must identify himself/herself and the agency and eligibility category which he or she represents. Voting members may not vote on issues involving their entity.

Non-Voting Members. Non-voting members are all others interested in furthering the goals of public safety communications. *Non-voting members are considered crucial and important, as they may have direct knowledge of new developments in technology.*

- 2.2 Tenure. In general, each member shall hold MEMBERSHIP from the date of acceptance until resignation or removal.

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

- 2.4 Suspension and Removal. A representative may be suspended or removed with cause by vote of a majority of members after reasonable notice and opportunity to be heard. Failure to attend 50% of meetings held in a calendar year shall be a specific cause for removal from the membership.

- 2.5 Resignation. A member may resign by delivering written resignation to the chairman, vice-chairman, treasurer or secretary of the Regional Committee or to a meeting of the members.

- 2.6 Annual Meetings. The annual meeting of the members shall be held at the Georgia Public Safety Training Center (GPSTC) in Forsyth, Georgia, (or another pre-designated location) before or after Georgia General Assembly period. .

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 2.6, 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 Section 2.7 and 2.8.

2.7 Special Meetings. Special meetings of the members may be held at any time and at any place within the Regional Committee area. Special meetings of the members may be called by the chairman or by the vice-chairman, or in case of death, absence, incapacity, by any other officer or, upon written application of two or more members.

2.8 Call and Notice.

A. Annual meetings. Reasonable notice of the time and place of scheduled meetings of the members, not being less than 30 days, shall be given to each member. Such notice may specify the purpose(s) of meeting, unless otherwise required by law or these bylaws or unless there is to be considered at the meeting (i) amendments to these bylaws, (ii) an increase or decrease in the number of members, or (iii) removal or suspension of a member who is an officer. Announcements of meetings, stating the time and place where the meetings to be held, may be published in newspapers, land mobile radio(LMR) periodicals and disseminated via e-mail and other electronic form.

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 five days or by e-mail/facsimile at least three days before any special meetings, 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 three days before the meeting.

2.9 Quorum. At any meeting of the members, a majority of the officers and {either a minimum number of members or a minimum percentage of members} of the voting members shall constitute a quorum. Any meeting may be adjourned to such date or dates not more than ninety days after the first session of the meeting by a majority of the votes cast upon the question, whether or not a quorum is present, and the meeting may be held as adjourned without further notice.

2.10 Action by Vote. Each voting member, representing a particular agency (one vote per agency) 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 properly cast by voting members present shall decide any question, including election to any office, unless otherwise provided by law or these bylaws.

2.11 Action by Writing. Any action required or permitted to be taken at any meeting of the members may be taken without a meeting if all members entitled to vote on the matter consent to the action in writing and the 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.

2.12 Proxies. Voting members may vote either in person or by written proxy dated not more than one month before the meeting named therein, which proxies shall be filed before being noted 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 the meeting by the proxy shall terminate after the final adjournment of such meeting.

2.12.1 Voting on One's Own Application. At no time can a voting member vote on his/her application.

- 2.12.2 Special Interest Voting. A voting member can **not** have a commercial interest in any of his/her region and/or adjacent regions application(s) on which he/she is reviewing, approving and/or voting.

ARTICLE III

OFFICERS AND AGENTS

- 3.1 Number and qualification. The officers of the Regional Committee shall be a chairman, vice-chairman, treasurer, secretary and such other officers, if any, as the voting members may determine. All officers must be voting members of the Regional Committee.
- 3.2 Election. The officers shall be elected by the voting members at their first meeting and, thereafter, at the annual meeting of the members.
- 3.3 Tenure. The officers shall each hold office until the annual meeting of the members held within one year from the adoption of these bylaws, or until their successor, if any, is chosen, or in each case until he or she sooner dies, resigns, is removed or becomes disqualified.
- 3.4 Chairman and Vice 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 Vice Chairman, if any, shall have such duties and powers as the voting members shall determine. The vice-chairman shall have and may exercise all the powers and duties of the chairman during the absence of the chairman or in the event of his or her inability to act.
- 3.5 Treasurer. The treasurer shall be the chief financial officer and the chief accounting officer of the Regional Committee. The treasurer shall be in charge of its financial affairs, funds, and valuable papers and shall keep full and accurate records thereof.
- 3.6 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.
- 3.7 Suspension or Removal. An officer may be suspended with cause by vote of a majority of the voting members.
- 3.8 Resignation. An officer may resign by delivering his or her written resignation to the chairman, vice-chairman, treasurer, or secretary 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.
- 3.9 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 clerk until his or her successor is elected and qualified, or in each case until he or she sooner dies, resigns, is removed or become disqualified.

ARTICLE IV

AMENDMENTS

These bylaws may be altered, amended or repealed in whole or in part by vote. The voting members 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 provision which FCC regulation or these bylaws requires action by the voting members.

ARTICLE V

DISSOLUTION

This Regional Committee may be dissolved by the consent of two-thirds plus one of the members in good standing at a special meeting called for such purpose. The FCC shall be notified.

ARTICLE VI

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, ten edition, Sarah Corbin Robert, Henry M. Robert III, William J. Evans and Daniel H. Honemann.

Appendix B

Region 10 Members, Agencies, Contact Information and Voting Status

Region 10, Georgia 700MHz Regional Planning Committee Membership Voting and Non-Voting Members

Last Name	First Name	Organization	Address	City	County	Zip Code	Phone No.	Status*		E-Mail Address
								V	NV	
Ashcraft	Val	Effingham 9-1-1	601 N. Laurel St.	Springfield	Effingham	31326	912-754-8888	X		effingham@gema.state.ga.us
Axtell	Keith	GBI	925 – B Mohawk Street	Savannah	Chatham	31419	912-658-2718	X		keith.axtell@gbi.ga.gov
Barnard	Kelly	Bulloch County	P. O. Box 247	Statesboro	Bulloch	30458	912-489-1661			kellybarnard@frontiernet.net
Beifus	Dana	WUPA, Ch69	2700 N. E. Expressway Bldg A	Atlanta	DeKalb	30345	4)728-4606		X	drbeifus@cwatlantatv.com
Blessing	Harry	Motorola	1700 Belle Meade	Lawrenceville	Gwinnett	30043	4)-291-5342		X	harry.blessing@motorola.com
Boswell	Tracy	GSP	130 Memorial Dr.	Atlanta	Fulton	30303	4)656-4038	X		tboswell@gsp.net
Braxton	Bruce	College Park PD	3717 College St.	College Park	Fulton	30337	4)761-3131	X		braxton1@aol.com
Brooks	Tom	800 MHz Transition ABM	3800 Esplan Road	Tallahassee	Florida	32311	850-294-4481		X	tom.brooksjr@bearingpoint.com
Byrd	John	Motorola	207 Banks Station PMB601	Fayetteville	Fayette	30215	7)-460-8230		X	John.byrd@motorola.com
Case	Alex	Dade Co. E-911	P. O. Box 567	Trenton	Dade	30752	706-657-4111			acase@dadega.com
Converse	Brian	Forsyth	110 E. Main Street	Cumming	Forsyth	30040	404-392-2875	X		btconverse@forsythco.com
Cox	Bob	Engineering Associates	1221 Old Alpharetta Rd.	Alpharetta	Fulton	30005	678-455-7266		X	bcox@engineeringassociates.com
Crichton	James	Glynn-Brunswick 9-1-1	157 Public Safety	Brunswick	Glynn	31525	912-554-7882	X		jcrichton@glynncountyga.gov
Crochran	Cedric	Atlanta PD	675 Ponce De Leon	Atlanta	Fulton	30308	4)853-7829	X		ccrochran@atlantaga.gov
Davis	Robert	City of Savannah	6900 Sallie Mood Drive	Savannah	Chatham	31406	912-351-3440	X		bdavis@savannah.gov
Durham	Bill	EA-Fulton/Fayette	1220 Old Alpharetta	Alpha	Forsyth	30005	678-455-2266		X	bdurham@engineeringassociates.com
Dykes	Amanda	Motorola	1700 Belle Oleade Court	Lawrenceville	Gwinnett	30043	770-338-7373		X	amanda.dykes@motorola.com
Ealer	Tim	Houston 911	200 Carl Vinson Parkway			31088	478-542-9911		X	tealer@houstoncountyga.org
Farmwald	Chris	Motorola	9500 Martin Road	Roswell	Fulton	30076	404-376-3526		X	c.farmwald@motorola.com
Fernando	Michael	MARTA/MAT C	2424 Piedmont Road	Atlanta	Fulton	30324	404-848-6039	X		mfernando@matciv.com
Figaro	Rita	GTA	254 Washington St.	Atlanta	Fulton	30334	4)463-8989	X		rfigaro@ga.ga.gov
Freeman	Eddie	Chairman, Spalding Co. BOC	P. O. Box 1087	Griffin	Spalding	30224	7)467-4233	X		N/A
Hamlett	Ronald	Columbus Consol. Gov't	420 – 10th Street	Columbus	Muscogee	31901	706-225-3958	X		rhamlett@columbusga.org
Hampton	Greg	Floyd Co. E9-1-1	5 Gov. Plaza, PO 946	Rome	Floyd	30161	706-236-4543	X		hamptong@floydcountyga.org
Hancock	Scotty	Floyd Co. Emergency Mgt.	5 Gov. Plaza, PO 946	Rome	Floyd	30161	706-236-5002	X		hancocks@floydcountyga.org
Hardin	Neal	DeKalb County Police	1960 W. Exchange Pl.	Tucker	DeKalb	30004	678-873-2286	X		pohardin@co.dekalb.ga.us
Johnson	Angela	Motorola	1700 Belle Meade Court	Lawrenceville	Gwinnett	30043	404-210-1896	X		angela.johnson@motorola.com

Region 10, Georgia 700MHz Regional Planning Committee Membership Voting and Non-Voting Members

Last Name	First Name	Organization	Address	City	County	Zip Code	Phone No.	Status* V	NV	E-Mail Address
Jones	Dwayne	Griffin DP	868 W. Poplar St.	Griffin	Spalding	30224	770-229-6450	X		djones@cityofgriffin.com
Jones	Stan	Henry County Fire	664 Industrial Blvd.	McDonough	Henry	30253	7)288-6617	X		slewis@atlantaga.gov
Kearns	Kevin	City of Sandy Springs	7840 Roswell Road, Building 500	Sandy Springs	Fulton	30350	206-979-1313	X		kkearns@ixpcorp.com
Lanier	Debra	Carroll Co. 9-1-1	896 Newnan Rd.	Carrollton	Carroll	30117	770-830-5922	X		dlanier@carrollcountyga.com
Lewis	Shirley	Atlanta PD	675 Ponce De Leon	Atlanta	Fulton	30308	4)853-7823	X		slewis@atlantaga.gov
Macke	Steve	GTRI	250 14th Street	Atlanta	Fulton		4)274-9930		X	stephnmacke@gtri.gatech.edu
Malone	Mike	Cherokee SO	498 Chaffin Drive	Canton	Cherokee	30115	687-493-4110	X		mmalone@cherokeega.com
Martin	Bill	Metropolitan Comm.	103 Commercial	Covington	Carroll	30117	770-834-7704		X	b.martin@metrocomms.net
Martin	Lamar	Gwinnett County PD	770 Hi Hope Rd.	Lawrenceville	Gwinnett	30046	7)513-5020	X		howellmckinnon@co.clarke.ga.us
McDevitt	Trudy	Spalding Co. 9-1-1	1438 Meriwether St.	Griffin	Spalding	30224	7)229-9911	X		tmcdevitt@spaldingcounty.com
McGannon	Mike	Engineering Associates	1221 Old Alpharetta Rd.	Alpharetta	Fulton	30005	678-455-7266		X	mmgannon@engineeringassociates.com
McKinnon	Howell	Athens – Clark County	3035 Lexington Rd.	Athens	Clarke	30605	706-613-3710	X		howellmckinnon@co.clarke.ga.us
McWhorter	James	DKPD	1960 W. Exchange Place	Tucker	DeKalb	30084	404-456-4013	X		jhmcwhorter@co.dekalb.ga.us
Mollohan	Jim	GTA	254 Washington St.	Atlanta	Fulton	30334	4)656-5619	X		Jim.Mollohan@gta.ga.gov
Nichols	Stan	Jackson County	86 Gordon Street	Jefferson	Jackson	30549	706-367-5202			snichols@jacksoncountygov.com
Nix	Marty	Hall County	P. O. Box 1495	Gainesville	Hall	30501	7)531-6774	X		mnix@hallcounty.org
Odom	Jack	Motorola	112 Cross Creek Cir.	Macon	Monroe	31210	478-474-2042		X	jack.odom@motorola.com
Pierce	Jim	L-3 Communicating	1355 Bluegrass	Alpha	Forsyth	30004	770-752-5481		X	Jim.pierce@L-3com.com
Padgett	Tim	Carroll Co EMA	501 Old Norcross Rd.	Covington	Carroll	30180	770-830-5882	X		tpackett@carrollcountyga.com
Patton	Tom	Alpharetta DPS	2970 Webb Bridge Rd.	Alpharetta	Fulton	30004	678-297-6346	X		tpatton@alpharetta.ga.us
Pottes	James	Tyco Electronics	1455 Old Alabama Rd., Suite 170	Roswell	Fulton	30076	678-787-5747	X		pottesia@tycoelectronics.com
Prindle	Ross	M/A-COM	Roswell	Roswell	Fulton	30096	770-990-1515		X	prindlero@tycoelectronics.com
Ragan	Thomas	City of Savannah	6900 Sallie Mood Dr.	Savannah	Chatham	31406	912-351-3441	X		thomas-ragan@savannah.ga.gov
Reiter	Noah	Asst City Mgr Sandy Springs		Sandy Springs		30328	770-206-1415	X		noah.reiter@sandyspringsga.org
Reynolds	Jamie	Forest Park Police	320 Cash Memorial Blvd.	Forest Park	Clayton	30297	404-366-7280	X		jreynolds@forestparkpd.com
Roberts	Tracy	Cobb County	140 N. Marietta Pkwy	Marietta	Cobb	30060	7)499-4164	X		troberts@cobbcounty.org
Roley	Richard	GTA/UASI	1200 Pacer Court	Ellijay	Gilmer	30540	706-636-1483		X	rgroley@gmail.com
Rutledge	Donna	Dawson Co. SO	19 Tucker Avenue	Dawsonville	Dawson	30534	706-344-3636	X		drutledge@dawsoncountysheriff.org

Region 10, Georgia 700MHz Regional Planning Committee Membership Voting and Non-Voting Members

Last Name	First Name	Organization	Address	City	County	Zip Code	Phone No.	Status* V	NV	E-Mail Address
Sanders	Keith	Alpharetta Fire	2970 Webb Bridge Rd.	Alpharetta	Fulton	30004	678-297-6273	X		ksanders@alpharetta.ga.us
Scott	Darryl	DKPD	1960 W. Exchange Place	Tucker	DeKalb	30084	404-379-5303	X		djscott@co.dekalb.ga.us
Sheppard	Jim	DeKalb Police	3630 Camp Circle	Decatur	DeKalb	30033	678-725-5609	X		iesheppa@co.dekalb.ga.us
Shute	Josh	Cherokee Co. 9-1-1	150 Chattin Dr.	Canton	Cherokee	30115	678-493-4070	X		jmshute@cherokeega.com
Silberberg	Jeffrey	Compudesigns/GMAG	1655 Redbourne Drive	Sandy Springs	Fulton	30350	770-399-9464			jms@compudesigns.net
Sisk	Gary	Catoosa Co. SO	5842 Highway 41	Ringgold	Catoosa	30736	706-935-2424	X		gary.sisk@catoosa.com
Smith	Mike	Covington-Newton 9-1-1	8146 Culter Tr. N.W.	Covington	Newton	30014	770-385-2050	X		mike.smith@covington-newton911.com
Speidel	Robert	Tyco Electronics	P. O. Box 2000	Lynchberg		24501	434-455-9465		X	speidelbo@tycoelectronics.com
Spensley	Randy	ARINC	100 Park Place Dr.	Warner Robins	Houston	31088	478-322-4572		X	randy.spensley@arinc.com
Studdard	Duane	Stone Mountain Park PD	P. O. Box 689	St. Mountain	DeKalb	30086	7)498-5679	X		d.studdard@stonemountainpark.org
Sweeney	Ed	Roswell PD	39 Hill Street	Roswell	Fulton	30075	7)640-4206	X		esweeney@co.roswell.ga.us
Talley-Riddle	J. Gayla	GSP	P. O. Box 1456	Atlanta	Fulton	30316	4)624-7780	X		gtalley@gsp.net
Van Haute	Paul	Spalding County	119 E Solomon Street	Griffin	Spalding	30224	770-467-4242	X		pvanhaute@spalding.com
Williams	Ed	Roswell PD	39 Hill Street	Roswell	Fulton	30075	7)640-4201	X		ewilliams@co.roswell.ga.us
Williams	Robert	City of Marietta	205 Lawrence St.	Marietta	Cobb	30060	7)794-5452	X		rwilliams@mariettaga.gov
Williford	Ferman	College Park PD	3717 College St.	College Park	Fulton	30337	4)761-3131	X		fawilliford@collegeparkga.com
Wilson	William	Board of Commission	P. O. Box 1087	Griffin	Spalding	30224	7)467-4224	X		wwilson@spaldingcounty.com
Wimpy	Debra	Dawson Co. SO	19 Tucker Avenue	Dawsonville	Dawson	30534	706-344-3636	X		wimpy@dawsoncountysheriff.org
Wyche	Ezra	DNR	2618 Shurling Drive	Macon	Bibb	31211	478-751-6415	X		ezra.wyche@dnr.state.ga.us

Appendix C

State of Georgia Counties and Population Data

Region 10, Public Safety 700 MHz Communications Plan

County Name	County Seat	Square Miles	Population 1990	Population 2000
Appling	Baxley	512	15,744	17,419
Athens-Clarke	Athens	122	87,594	101,489
Atkinson	Pearson	338.1	6,213	7,609
Bacon	Alma	285	9,566	10,103
Baker	Newton	343.2	3,615	4,074
Baldwin	Milledgeville	258.5	39,530	44,700
Banks	Homer	233.7	10,308	14,422
Barrow	Winder	162.2	29,721	46,144
Bartow	Cartersville	459.9	55,915	76,019
Ben Hill	Fitzgerald	251.8	16,245	17,484
Berrien	Nashville	452.5	14,153	16,235
Bibb	Macon	250	150,137	153,887
Bleckley	Cochran	217.4	10,430	11,666
Brantley	Nahunta	444.4	11,077	14,629
Brooks	Quitman	493.7	15,398	16,450
Bryan	Pembroke	441.8	15,438	23,417
Bulloch	Statesboro	682.6	43,125	55,983
Burke	Waynesboro	830.6	20,579	22,243
Butts	Jackson	186.6	15,326	19,522
Calhoun	Morgan	280.2	5,013	6,320
Camden	Woodbine	629.9	30,167	43,664
Candler	Metter	247	7,744	9,577
Carroll	Carrollton	499.3	71,422	87,268
Catoosa	Ringgold	162.2	42,464	53,282
Charlton	Folkston	780.8	8,496	10,282
Chatham	Savannah	440.4	216,774	232,048
Chattooga	Summerville	313.8	22,242	25,470
Cherokee	Canton	423.7	90,204	141,903
Clay	Fort Gaines	195.2	3,364	3,357
Clayton	Jonesboro	142.6	181,436	236,517
Clinch	Homerville	809.4	6,160	6,878
Cobb	Marietta	340.2	447,745	607,751
Coffee	Douglas	599.1	29,592	37,413
Colquitt	Moultrie	552.3	36,645	42,053
Columbia	Appling	290	66,031	89,288
Cook	Adel	229.1	13,456	15,771
Coweta	Newnan	443.1	53,853	89,215
Crawford	Roberta	325.1	8,991	12,495
Crisp	Cordele	273.8	20,011	21,996
Chattahoochee	Cusseta	248.8	10,107	1,196
Dade	Trenton	173.9	13,147	15,154
Dawson	Dawsonville	211	9,429	15,999
Decatur	Bainbridge	596.8	25,517	28,240
Dekalb	Decatur	268.3	546,171	665,865
Dodge	Eastman	500.6	17,607	19,171
Dooley	Vienna	393	9,901	11,525
Dougherty	Albany	329.7	96,321	96,065

Region 10, Public Safety 700 MHz Communications Plan

County Name	County Seat	Square Miles	Population 1990	Population 2000
Douglas	Douglasville	199.3	71,120	92,174
Early	Blakely	511.3	11,854	12,354
Echols	Statenville	404.2	2,334	3,754
Effingham	Springfield	479.5	25,687	37,535
Elbert	Elberton	368.8	18,949	20,511
Emanuel	Swainsboro	686	20,546	21,837
Evans	Claxton	185	8,724	10,495
Fannin	Blue Ridge	385.8	15,992	19,798
Fayette	Fayetteville	197.4	62,415	91,263
Floyd	Rome	513.3	81,251	90,565
Forsyth	Cumming	225.8	44,083	98,407
Franklin	Carnesville	263.3	16,650	20,285
Fulton	Atlanta	528.7	648,779	816,006
Gilmer	Ellijay	426.7	13,368	23,456
Glascocock	Gibson	144.2	2,357	2,556
Glynn	Brunswick	422.4	62,496	67,568
Gordon	Calhoun	355.2	35,067	44,104
Grady	Cairo	458.2	20,279	23,659
Greene	Greensboro	388.4	11,793	14,406
Gwinnett	Lawrenceville	432.9	352,910	588,448
Habersham	Clarkesville	278.2	27,622	35,902
Hall	Gainesville	393.7	95,434	139,277
Hancock	Sparta	473.3	8,908	10,076
Haralson	Buchanan	282.2	21,966	25,690
Harris	Hamilton	463.8	17,788	23,695
Hart	Hartwell	232.2	19,712	22,997
Heard	Franklin	296.1	8,628	11,012
Henry	McDonough	322.7	58,741	119,341
Houston	Perry	376.8	89,208	110,765
Irwin	Ocilla	356.8	8,649	9,931
Jackson	Jefferson	342.4	30,005	41,589
Jasper	Monticello	370.5	8,453	11,426
Jeff Davis	Hazlehurst	333.4	12,032	12,684
Jefferson	Louisville	527.7	17,408	17,266
Jenkins	Millen	349.8	8,247	8,575
Johnson	Wrightsville	304.4	8,329	8,560
Jones	Gray	393.8	20,739	23,639
Lamar	Barnesville	184.8	13,038	15,912
Lanier	Lakeland	186.8	5,531	7,241
Laurens	Dublin	812.6	39,988	44,874
Lee	Leesburg	355.8	16,250	24,757
Liberty	Hinesville	519.1	52,745	61,610
Lincoln	Lincolnton	211.1	7,442	8,348
Long	Ludowici	401	6,202	10,304
Lowndes	Valdosta	504.3	75,981	92,115
Lumpkin	Dahlonega	284.5	14,573	21,016
Macon	Oglethorpe	403.3	13,114	14,074

Region 10, Public Safety 700 MHz Communications Plan

County Name	County Seat	Square Miles	Population 1990	Population 2000
Madison	Danielsville	284.4	21,050	25,730
Marion	Buena Vista	367.1	5,590	7,144
McDuffie	Thomson	259.8	20,119	21,231
McIntosh	Darien	433.5	8,634	10,847
Meriwether	Greenville	503.4	22,411	22,534
Miller	Colquitt	283.1	6,280	6,383
Mitchell	Camilla	512	20,275	23,932
Monroe	Forsyth	395.7	17,113	21,757
Montgomery	Mount Vernon	245.3	7,319	8,270
Morgan	Madison	349.7	12,883	15,457
Murray	Chatsworth	344.4	26,147	36,506
Muscogee	Columbus	216.3	179,280	186,291
Newton	Covington	276.4	41,808	62,001
Oconee	Watkinsville	185.8	17,618	26,225
Oglethorpe	Lexington	441.1	9,763	12,635
Paulding	Dallas	313.6	41,611	81,678
Peach	Fort Valley	151.1	21,189	23,668
Pickens	Jasper	232.1	14,432	22,983
Pierce	Blackshear	343	13,328	15,636
Pike	Zebulon	218.4	10,224	13,688
Polk	Cedartown	311.2	33,815	38,127
Pulaski	Hawkinsville	247.4	8,108	9,588
Putnam	Eatonton	344.5	14,137	18,812
Quitman	Georgetown	151.6	2,210	2,598
Rabun	Clayton	371.1	11,648	15,050
Randolph	Cuthbert	429.3	8,023	7,791
Richmond	Augusta	329	189,719	199,775
Rockdale	Conyers	130.7	54,091	70,111
Schley	Ellaville	167.6	3,590	3,766
Screven	Sylvania	648.5	13,842	15,374
Seminole	Donalsonville	238.1	9,010	9,369
Spalding	Griffin	198	54,457	58,417
Stephens	Toccoa	179.3	23,436	25,435
Stewart	Lumpkin	458.7	5,654	5,252
Sumter	Americus	485.3	30,232	33,200
Talbot	Talbotton	393.2	6,524	6,498
Taliaferro	Crawfordville	195.4	1,915	2,077
Tattnall	Reidsville	483.7	17,722	22,305
Taylor	Butler	377.5	7,642	8,815
Telfair	McRae	441.2	11,000	11,794
Terrell	Dawson	335.5	10,653	10,970
Thomas	Thomasville	548.4	38,943	42,737
Tift	Tifton	265.1	34,998	38,407
Toombs	Lyons	366.7	24,072	26,067
Towns	Hiawassee	166.5	6,754	9,319
Treutlen	Soperton	200.7	5,994	6,854
Troup	LaGrange	413.9	55,532	58,779

Region 10, Public Safety 700 MHz Communications Plan

County Name	County Seat	Square Miles	Population 1990	Population 2000
Turner	Ashburn	286.1	8,703	9,504
Twiggs	Jeffersonville	360.4	9,806	10,590
Union	Blairsville	322.7	11,993	17,289
Upton	Thomaston	325.5	26,300	27,597
Walker	LaFayette	446.3	58,340	61,053
Walton	Monroe	329.3	38,586	60,687
Ware	Waycross	902.6	35,471	35,483
Warren	Warrenton	285.5	6,078	6,336
Washington	Sandersville	680.5	19,112	21,176
Wayne	Jesup	644.7	22,356	26,565
Webster	Preston	209.6	2,263	2,390
Wheeler	Alamo	297.7	4,903	6,179
White	Cleveland	241.6	13,006	19,944
Whitfield	Dalton	290	72,462	83,525
Wilcox	Abbeville	380.4	7,008	8,577
Wilkes	Washington	471.4	10,597	10,687
Wilkinson	Irwinton	446.6	10,228	10,220
Worth	Sylvester	569.8	19,744	21,967

Appendix D

List of Meetings, Summaries of Minutes, Agendas

Meeting Notes for October 12, 2001

1. Meeting started at 10:13 hrs with 12 persons present
2. Agenda - informational type meeting not a formal RPC meeting
3. Internet handout- spectrum available by Dec 2006- expected to be compatible with 800 MHz
4. Larry Singer invited to the NCC steering committee - attended by Wray Hall in Singer's place
5. Looking for help from attendees for research and other areas of the 700 committees
6. planning money available- \$2,500 per year - operating costs - each region - run it's own database - \$800.00 allocated for training on the database
- 7.. widen our notice announcements - use funds for professional notices (papers, magazines, etc.)
8. At the first meeting - hold official elections
9. Elements of 700 MHz plans
 - general description of how the spectrum will be allotted
 - priority allocation scheme : public safety –vs- public services, etc. (encourage consolidation)
 - coordinate with adjacent States - State coordination process for 700 maybe different than existing 800 regional committees.
 - Expect better National/Regional coordination than 800 by using a common Federal (Nat'l) database - description on spectrum use, capacity, range, coverage and the future technology
10. Boundaries - suggestion: same as 800 ?? – or GEMA - to be discussed later
11. Elements of 700 MHz - large document, brought 25 copies - guidance of RPC
12. State interoperability planning committee
 - planning committee
 - education/outreach committee - acquire contact with every eligible agency
13. Interoperability
 - 800 - has 5 mutual aid channels available
 - 700 - more !! 10% if the 24 MHz slated for use for interoperability
 - determine whether to have our own committee to manage mutual channels or identify an existing agency to continue coordination of mutual channels?
 - there is a nationwide effort to label mutual aid channels the same across the nation. (doesn't exist with 800 Mhz)
 - Run by SIEC or RPC committee - we choose
14. Who hold license?
 - State? And then authorize to any other agency?
 - mobile units - receive blanket license
15. Who files for license?
16. FCC deadline - must do by the end of the year
 - no decision made - it reverts to RPC
 - request further discussion before decision made.
17. discussion of the potential Statewide radio system and how 700 spectrum could impact it.

18. State license pending for 700 Mhz - 10% spectrum available to the State - license turned in since 6/12/01 - awaiting license grant
19. boundaries - consider modify 821 boundaries - make similar as GEMA regions and adopt for 700
 - look at GEMA then consider the high populous areas (metro Atlanta)
20. Public Safety Nat'l Coordination Committee (NCC) presentation - next meeting was scheduled for Nov 15-16 in NYC (tentative)
 - 3 subcommittees - Technology, interoperability, implementation
 - auction of 700 - moved to 2003 - pushes back the leaving of the TV stations to later than 2006
 - issues with Mexico on channels 60-69
21. Review RPC items for future meeting (2nd handout)
 - > Tracy - help Wray look at the by laws.
22. Report and update on 821 - reallocation of channels
 - get committee back together
 - address changes made by ACOG
 - Wray needs to inventory available spectrum out there
 - update the data
 - make written changes and submit to the FCC before he can issue or re-issue 821's
23. Future meeting dates/location
 - Nov 6, Dec 12 offline meeting to do the homework in preparation of the RPC meeting
 - Next meeting -- Jan 24, 2002, GPSTC at 10:00 - first official RPC meeting
24. 700 will be all digital equipment

**Region 10 – Georgia, 700 MHz Regional Planning Committee (RPC)
Minutes of Meeting – GPSTC, Forsyth, GA January 24, 2002**

Meeting convened at 10:14 hours.

(Called to order by appointed Convening Authority, Wray Hall, State Frequency Coordinator)

Attendance:

The Region 10, Georgia, 700 MHz Regional planning committee meeting was held in the auditorium of the Georgia Public Safety Training Center in Forsyth, Georgia. There were twenty-one (21) governmental and twelve (12) non-governmental eligible members in attendance. See sign in sheet for list of attendees.

Items Covered:

1. Introductions and overview of the 700 MHz spectrum for Public Safety.
2. Appointment of temporary secretary: Tracy Roberts/Cobb County.
3. Reviewed meeting Agenda.
4. Reviewed minutes of last meeting - October 12, 2001.
5. Provide an update of Georgia's license status - Applied for and granted.
6. Status of allocated funding of \$2,500.00, from NIJ AGILE Program:
(National Institute of Justice – Advanced Generation of Interoperability for Law Enforcement)
Spent \$143.63 - advertisements in Atlanta Journal-Constitution
Balance: \$2356.36
7. Introduced 800 MHz NPSPAC Chairman - Richard Roley, GTA.
8. Established Regional Planning Committee (RPC) Procedures
Reviewed voting and non-voting member qualifications
9. Nomination and Election of Officers
Chairperson - Wray Hall, GTA
Vice Chairperson - Richard Bond, City of Gainesville PD
Secretary - Tracy Roberts, Cobb County
Treasurer - Bob Harper, City of Douglasville
10. Committee Appointments by the Chairperson
Planning - Ron Hamlett, City of Columbus
Interoperability - Bob Williams, City of Marietta

Education & Outreach - Wayne Smith, Harallson County

*** Looking for volunteers to serve on the committees.**

11. Approved and adopted bylaws - as is.

Location of annual meetings to be held at GPSTC, Forsyth, Georgia

Special meetings (section 2.7) - various locations across the State

12. Discussed development of draft plan.

Region 10 – Georgia, 700 MHz Regional Planning Committee (RPC)

Minutes of Meeting –, GPSTC, Forsyth, GA

13. Discussed Regional Boundaries.

Motion to adopt GEMA boundaries for 700 MHz Region 10 planning. Seconded and carried. Motion to reconvene the 821 NPSPAC regional review committee to revamp boundaries to coincide with 700 MHz boundaries. Seconded and carried.

14. Discussed items for future meetings.

15. Update on 821 NPSPAC, Region 10 by Richard Roley.

Suggested 700 MHz and 821 NPSPAC meet on the same day, same location at separate times.

16. Final Business

a. Future meeting dates and locations - need to meet at least two more times before next annual meeting.

(1) Suggestion for next meeting: April 25, 2002 or first part of May 2002 - to be decided by email.

b. Committees - need to meet in February or March of 2002.

c. Designate Regional Representatives at next meeting - need more members present.

d. Consider changing Annual meeting date so as to not conflict with General Assembly.

e. Another committee consideration presented by Ron Hamlett, of Columbus - Develop a resource list for each County and Municipality within a County.

f. Coordinate 700 MHz activity on the Georgia APCO web page - Peggy Glaze, Fayette County, and Richard Roley, GTA, to coordinate.

g. Discussed adding another Regional 700 MHz Representative to the adopted GEMA boundary map.

Meeting adjourned at 11:45 hours.

TRACY ROBERTS, Secretary – Cobb County

Meeting: April 10, 2003

Attendance:

The Region 10, Georgia, 700 MHz Regional planning committee meeting was held at the Georgia Public Safety Training Center in Forsyth, Georgia, on April 10, 2w003. See sign in sheet for list of attendees. The meeting started at 1:35 p.m.

Items Covered:

1. Reviewed meeting agenda.
2. Introductions and purpose by Wray Hall.
3. Motion to approve meeting minutes from 1-24-02 meeting – approved.
4. Financial report by Bob Harper – see handout.
5. Standing committee report by Wray Hall.
 1. Continue the committees and encourage more meetings and activities.
6. Minor changes to the by-laws.
 1. 2.1 – Non voting member description change – approved
 2. 2.6 Change annual meeting date change – approved
 3. 2.6 various locations change - approved
7. Develop and prepare a State plan
 1. Paper & CD copy of the NLECTC planning guide book for 700 Mhz
8. Frequency allocation plan – CAPRAD.
 1. Intend to have a nation wide database so adjoining states can check for conflicting license issuance.
 2. Reviewed CAPRAD slides
9. 700 MHz availability could be in 2006.
10. Future RPC meeting – on or about May 2004.
11. Review NCC progress
 1. Every 3-4 months meetings occur to help steer the progress of the Local RPC.
12. Richard Roley provided update of 821 re-allocation summary.
13. Election of officers – serve for 1 year = ALL approved
 1. Chair = Wray Hall, GTA
 2. Vice Chair = Ron Hamlett, Columbus
 3. Secretary = Tracy Roberts, Cobb County
 4. Treasurer = Bob Harper, City of Douglasville
14. Re-appointed Chair persons for the sub-committee
15. Questions & Discussions – get some more work done and pickup the ball on the effort.
 1. Feed back from FCC on TV station appeal? – Suggested subscribing to the FCC daily digest.

2. APCO frequency coordination page will put FCC information into layman's terms for others to understand.
 3. Chair's instructed to look through the guidebook so we can develop a plan of action.
 - i. Jeff Silberberg with GMAG to add to website.
16. Meeting adjourned at 2:38 p.m.

AGENDA

Region 10, Georgia*
700 MHz Regional Planning Committee Meeting
Tuesday, November 14, 2006, 10:00 AM – 12:00 PM
GPSTC, Forsyth, GA

1. Introduction and purpose of meeting (Chairperson)
 - (Recognition of attendees and identify sub region chairs / representatives)
2. Review / approve minutes and financial report of April 10, 2003 (Secretary Treasurer)
3. Present RPC Bylaws approved at last meeting
4. Standing Committees - review composition and missions (changes as necessary)
5. Review DRAFT Region 10 -Georgia 700 MHz Regional Plan (Rita Figaro)
 - (Living document until FINAL DRAFT ready for submission to FCC)
 - (Send e-mail at any time to receive latest copy)
 - (Invited to visit ** CAPRAD website to learn more – see below)
6. CAPRAD system - frequency allocation plan – (Bob Davis)
 - (Emphasis on channel allocations and channelization of wideband spectrum)
7. State Interoperability Executive Committee (SIEC)
 - (Previously established as synonymous function of 700 MHz and 821 MHz committees)
8. Election / re-election of officers and sub-committee members
9. Review items for future RPC meetings, establish dates and locations
 - (Tentative March 21, 2007 consecutive w/821 MHz Committee meeting)
10. Discussions

Region 10, Public Safety 700 MHz Communications Plan

*Region 10 includes all of the counties and municipalities in the state of Georgia.

*Wray Hall, Chairperson
Region 10 – Georgia, 700 MHz Regional Planning Committee
State Frequency Coordinator
Georgia Technology Authority
254 Washington St. SW, Ground Floor
Atlanta, GA 30334-9010
Phone (404) 656-2042; Fax (404) 657-0320
E-Mail: whall@gtg.ga.gov*

On-line links and references:

** CAPRAD (Computer Assisted Pre-Coordination Resource and Database System)
<http://caprad.nlectc.du.edu/cp/index.jsp> (For research and learning log in as **VISITORS** [Click Here](#))

NPSTC (National Public Safety Telecommunications Council)
<http://www.npstc.org/index.jsp>

MEETING NAME

Meeting Minutes

To: 700 MHz RPC - Chair
Cc:
From: Tracy Roberts, Secretary
Subject: Regional Meeting
Date: November 14, 2006

Attendance Log:

Meeting held at the GPSTC in Forsyth, Georgia

See Sign in attendance log Started at 10:13 hours

Action Items:

#	Action	Resource	Due Date	Comments
ITEMS DISCUSSED:				
1	Introductions - Wray Hall, Chair Ron Hamlett, Vice Chair Tracy Roberts, Secretary Bob Harper, Treasurer (vacant) Beth Morgan - GTA Operations director Jim Mollohan - GTA Rita Figero - GTA Region Chairs Present - 1 Howell Mckinnon 2 - vacant 3 - not present 4 - Ron Hamlett 5 - Bob Davis 6 - not present Mike Monroe, Cherokee County (under consideration) 7 - Tracy Roberts 8 - not present 9 - Rita Figero - represents the State			
2	Review/Approve minutes and financial report from April 10, 2003 - Tracy Roberts Minutes - Tommy (Savannah) 1 st , Ron 2 nd Treasury report - Howell, and Bob			

Region 10, Public Safety 700 MHz Communications Plan

#	Action	Resource	Due Date	Comments
3	Present RPC Bylaws approved at last meeting			
4	<p>Standing Committees - review composition and missions (changes as necessary)</p> <p>Outreach</p> <p>Technical committee and implementation committee - future (TBD) reviews the technical aspects and confirms compliance of the plans and application proceeds forward for approval.</p>			
5	<p>Review DRAFT Region 10 - Georgia -</p> <p>* Timeline: Completed by Dec 2007 will work between spring and summer of 2007 to complete and finalize the document.</p> <p>* Once plan is approved counties can apply for frequencies that have been allotted to them. If you need more than allocated, then your plan request must be sent to the technical review committee. (3.1 - Requesting Frequencies, 3.2 Frequency coordination)</p> <p>* Review the plan and provide feedback prior to the next RPC meeting. (All USERS)</p>			
6	<p>CAPRAD System - frequency allocation plan - Bob Davis</p> <p>* initial allocations done by NPSTC and they are 25 kHz allocation for voice</p> <p>* 12.5, & 50 KHz allocations for the future</p> <p>* Current CAPRAD - only deals with 25 KHZ allocations right now.</p> <p>* Wideband briefing:</p> <ul style="list-style-type: none"> - channel allocation - block shows available channels for wideband data - manufacture wideband proprietary technologies still allowed, but will change in 2008 when you will be required to use the new standards (531 in part 90) - TIA 102 - project 25 - standard - TIA 902 -(SAM) technology for data transmission - CFR47 part 90.41 			
7	Wideband interoperability channels - they have to use the TIA 902 standard.			
8	Wide band reserved channels - no other information other than reserve			
9	<p>All other channels in the list - current the ones we would coordinate in our plan</p> <p>* up to 2 channels can be aggregated</p> <p>* channel aggregations formula Part 90.535 (c)</p>			
10	Passed out the various internet link sites			
11	<p>State Interoperability Executive Committee</p> <p>* it is synonymous with the 700/821 RPC committee</p> <p>* recommend we continue with this configuration</p>			

Region 10, Public Safety 700 MHz Communications Plan

#	Action	Resource	Due Date	Comments
12	<p>Election and Reelection</p> <ul style="list-style-type: none"> * Change the officers in the committee and the bylaws and the officers in the position. <p>Motion: combine the secretary/treasurer position - unanimous consent</p> <ul style="list-style-type: none"> * Chairman - nominations: Wary Hall : re-elected * Vice Chair - nominated Ron Hamlett , Bob Davis - majority vote for Ron Hamlett * Secretary/Treasurer - Tracy Roberts - re-elected 			
13	<p>Future meetings: External and Internal meetings March 21, 2007 with 821 MHz meeting</p>			
14	<p>SIEC - how do we function and what are our guidelines for this committee.</p> <ul style="list-style-type: none"> * sit down and speak with GEMA/all Hazards regions about the interoperability problems. * Tracy to check with A7 chair about a State council meeting. <p>* Hal communications chair for area 5 - the areas are looking to the State for guidance (perception) no clear choices already carved out, or preference.</p> <p>* Bob Davis -</p> <p>(1) Channel utilization and configuration concern statewide with the new 700 Mhz RPC consider the SIEC group look at and address from a statewide perspective.</p> <p>(2) Data interoperability development.</p>			
15	<p>Rebanding and interference from rebanding and when will the rebanding channels be available for reassignment.</p> <ul style="list-style-type: none"> * referred to the TA who will be here at the next meeting. 			
16	<p>Sub region chairperson for the 700 Mhz - not a nominated position</p>			
17	<p>Jim Mollohan - 4.9 plans: Suggestion regions start looking at the 4.9 plans for themselves because it will be an interoperability issue as well. 25 entities have license now, but do they have a plan?</p> <ul style="list-style-type: none"> • Look at the APCO link for 4.9 and review the information and plans. • Atlanta plans will not meet the rural needs. - Must address this at the All Hazards regional level - START PLANNING. <p>Richard Roley - What part of 4.9 should be city, county, or state so you don't walk all over each other on a scene (low power)</p>			
18	<p>Motion to adjourn 11:38 hrs Tommy, Neal - approved</p>			

MEETING NAME

Meeting Minutes

To: Wray Hall, Chair
Cc:
From: Tracy Roberts, Secretary
Subject: 821 RPC Meeting
Date: June 20, 2007

Attendance Log:

Held at GPSCT in Forsyth, Georgia

See sing in sheet for attendance

Meeting started at 1:34 pm

Action Items:

#	Action	Resource	Due Date	Comments
OTHER ITEMS:				
	<p>Dan Brown, State of Georgia – Presentation prior to the RPC meeting. What is the State plan? Where are we ? Where are we going? Dan Brown, I am currently the new Chief Information Officer within the State department of Homeland Security I remain the chairmanship of the State interoperability, LETPP MotoBridge project, and the Statewide strategic plan.</p>			
	821 RPC began at 2:15 pm			
	Copies of the most recent 821 MHz Regional Plan from changes made back in November 2006.			
	Financial report same as 721 RPC report, minutes			
	<p>Approve Minutes from last meeting: Motion to approve minutes: Howell McKinnon Second: Bob Williams</p>			
	<p>Channel Allotment – re-engineer again, if possible. Last channel allotment change, August 2003 – no changes made since that time except for administrative changes. They need to be re-engineered again, if possible. The cost can be as great as \$3,000.00 to help pay for this work effort.</p>			

Region 10, Public Safety 700 MHz Communications Plan

#	Action	Resource	Due Date	Comments
	<p>Review progress of 800 MHz rebanding transition in Georgia – Jim Mollohan, ARINC Tom Brooks, 800 MHz TA, – Quick update and overall status and what is to come (power point presentation) for Wave III, and Georgia</p> <ul style="list-style-type: none"> • Wave Status <ul style="list-style-type: none"> ○ 1-120 in the state of Georgia 225 of 253 FRAs are submitted, as of March 31, 2007. ○ State 2, NPSPAC channels 4 of 237 FRAs are submitted, as of March 31, 2007. • Recent FCC Guidance <ul style="list-style-type: none"> ○ STA were eligible for rebanding costs DA 07-541 ○ 2nd touches to radios, city of Boston document, they are reasonable sometimes DA 07-583 ○ Expansion band rights DA 0701648 ○ Internal & consultant costs analyzed, City of Manassas DA 07-1999 ○ Minimal cost clarified, not reasonable, but low cost ruling. FCC 07-92 ○ NSPAC Capable radios, entitled to software updates or change out radios for use on NSPAC systems DA 07-2058 ○ Miscellaneous items FCC 07-102 2nd MOO (Memorandum Opinion Order) <ul style="list-style-type: none"> ▪ Post mediation legal costs – you are on your own after rebanding is completed ▪ Licensing freezes – will accept waivers changes that affect rebanding ▪ Spring operations near NSPAC channels (25 KHz +/-) – sprint has to stay away +/- 25 KHz of a public safety user license. • The SED Program <ul style="list-style-type: none"> ○ Designed to allow earlier start to reconfiguration for subscriber units – typically the long lead-time items ○ Essentially a preliminary FRA ○ Can be amended as need for more units and for the final FRA. • What is ahead? <ul style="list-style-type: none"> ○ TV Channel 69 guidance – received documents that they can respond to ○ Schedule Guidance – requesting extension, TA needs to study this and come back with ideas. ○ Implementation Coordination – expect future coordination help with this issue <p>Encouraged coordination and joint work effort in identifying issues related to Channel 69 interference.</p>			
	<p>ARINC report: Channel 69 study</p> <ul style="list-style-type: none"> • End of July early August 2007 we should have an analysis report ready • MOU out there for coordinating on the analysis. Purpose: some agencies want to delay rebanding until channel 69 is off the air. Others are invited to participate in the study and act as a bargaining agent to the FCC and Nextel on a plan. • Data will be shared with anyone who requests. • Equipment here, calibrated, test plan, and have begun taking measurements. Today done when channel 69 was off the air, around 3:00 am this morning. • FCC is suppose to make a ruling July 12,2007 and some agencies are waiting their ruling as before deciding to participate. 			
	<p>FCC Freeze on filing applications and subsequent filing procedures</p>			

Region 10, Public Safety 700 MHz Communications Plan

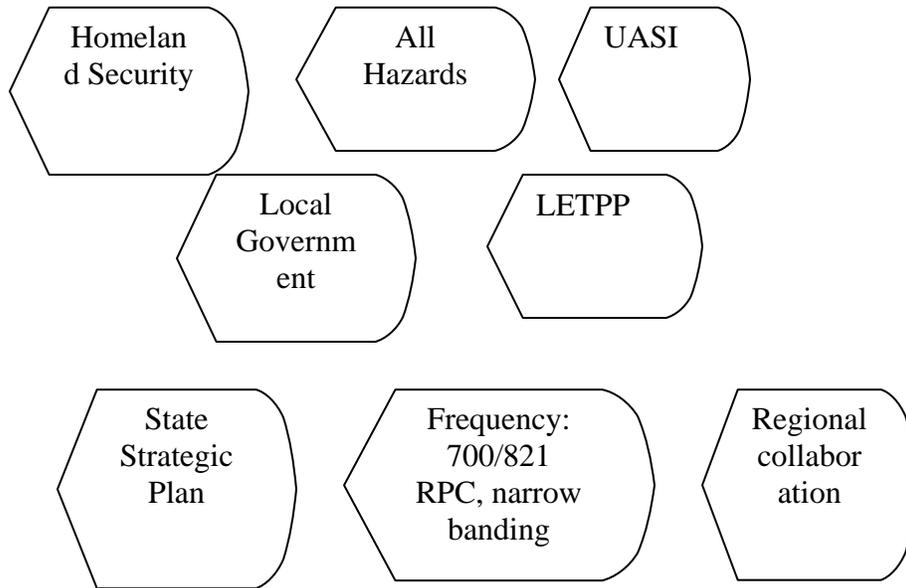
#	Action	Resource	Due Date	Comments
	<p>Special Elections: Wray has filed official letter with Secretary treasure to tender his resignation, effective the date of his retirement with GTA, with a date no later than December 2007. If a person is elected to the position before this date, they will assume official role and duties thereof.</p> <p>Nomination: Jim Mollohan Motion: nomination closed Second: Tommy Regan Vote: approved</p>			
	Establish future meeting dates and locations – to be consecutive with 700 RPC meetings			
	Motion to adjourn: Howell McKinnon Second: Adjourned at 2:53 pm			

CLOSED ITEMS:				

**Dan Brown - Presentation
 June 20, 2007**

Discussion:

- State strategic plan is not a new plan.
- GTA and executive branch of government develop policy and are accountable for the expenditure of money.
- Must build what is flexible
- Interoperability issues and impacts in the State of Georgia



- Homeland Security Funds
- Three funds paid into communications
 - LETPP
 - 69 installed in 2006
 - 36 installed in 07
 - 90 installed in 2008 (?)
 - 21 installed in 2009 (?)
 - Plan to install a MotoBridge in every county PSAP center.
 - Renegotiate contracts associated with MotoBridge to reduce maintenance rates on the system
 - Spent 130 million dollars already, it has been local money – going to the locals. The State doesn't control it or are allowed to participate in the funding source.
 - UASI
 - 3 Core agencies
 - 9 Core agencies
 - The haves and the have nots are different. The rural doesn't have the same needs and requirements as the UASI folks.
 - Model is to continue to grow to all counties in Area 7
 - State plans on using the same Atlanta TIC Plan template and push out to the other GEMA areas.
 - All Hazards
 - Regional solution approaches.

State strategic plan – State verses Local

Input from:

- Collecting data from LETPP
- Work of UASI

- All Hazards interview

GTA

- 700/821 RPC
- Frequency coordination
- State comments
- FCC Rebandng

We need to carry a consistent message. We all have different methodologies for how it should be done. We can agree that we can do certain things. I believe there are two solutions in the State; **800 and VHF**. The trestle between the two is Gateways. For the State it is Motorbridge

Statewide strategic plan – standardization will be a key requirement. And as we continue to grow and spend money in the future it will hopefully guide us in the direction we need to go. The capacity and technology exists today. People and process do not.

SIEC – was created by executive order and not by legislation.

Who is on this committee?

Every public safety practitioners, Police, Sheriff, Fire, State agencies, 911

* They, SIEC, work through the 3 committees; All Hazards thru HSGP, LTEPP through HS, UASI an independence governing body thru DHS and the State.

* There are 36 local 800 MHz jurisdictions in the State.

* The State has committed to buy a Future COM system that will enable the State users to communicate to 800 MHz system and VHF systems. MotoBridge will help in other areas.

MEETING NAME

Meeting Minutes

To: 700 MHz RPC - Chair
Cc:
From: Tracy Roberts, Secretary
Subject: Regional Meeting
Date: June 23, 2008

Attendance Log:

Meeting held at the GPSTC in Forsyth, Georgia

See Sign in attendance log

Started at 10:04 hours

Action Items:

#	Action	Resource	Due Date	Comments
ITEMS DISCUSSED:				
	Introductions and purpose of meeting – Jim Mollohan			
	Introductions of officer and subcommittee			
	Reading of the minutes and treasurer report – Tracy Roberts			
	<p>Overview of CAPRAD website and purpose – Jim Mollohan</p> <ul style="list-style-type: none"> • Website http://caprad.nlectc.du.edu/cp/index.isp • Channel Allotments in CAPRAD <ul style="list-style-type: none"> ○ Shows all the frequencies allotted ○ RPC – Shows only general purpose voice channels, nothing more ○ Resources available ○ No funds to expand to 800 MHz frequencies on CAPRAD • Bob Davis reviewed some positive points about frequency research, independent of the State frequency coordinator. • Question: regarding the nationwide broadband from the FCC 			
	<p>Changes since the last meeting</p> <ul style="list-style-type: none"> • Updates to reflect • New allocations to all counties • Updates on the appendix ; membership, meetings, DTV conclusion • Added two additional appendixes of the 700 MHz rules • Band plan – busy chart with all channels – colored copy the best way to look at it. Part to review is in Yellow • Updated table of contents. • THIS MUST BE VOTED ON TODAY!!!! • The State does NOT have a plan for 700 frequencies, but we had to allocate them across the state as apart of the RPC plan. • Important to be “Fair” with everyone. • 			

Region 10, Public Safety 700 MHz Communications Plan

#	Action	Resource	Due Date	Comments
	<p>Region 10 Timeline - Slide 5 of handouts</p> <ul style="list-style-type: none"> • Approved at the State level • Regional/adjacent approval • File with FCC • FCC review • Public notice for 30 days • Closed notice • Project February 2009 as final approval with FCC – IF EVERYTHING GOES RIGHT. • Question: When do you really expect it to be approved. • Answer: there are 55 RPCs out there, only 20-30 have been approved so far. Expect difficulty with the FCC. • Comment: 4-5 actually have received final approval • Comment: Once the FCC approves then the channels can be allocated? Correct, we must have the plan. • Comment: Everyone involved are volunteers and have a full time job. Ralph Bevan is a key personnel on this topic. He is learning. Some small challenges, time scheduling, technical problems. 			

Region 10, Public Safety 700 MHz Communications Plan

#	Action	Resource	Due Date	Comments
	<p>Discussion: Question: Financial commitment? What are they looking for? Answer: making sure you have the money. Comment: The only issue with grants is they have deadlines. Normally if you are trying to get your licens, you have to get your license several years in advance of the grant. So asking for financial commitment will be difficult to reply to. Comment: We just need to know what your plan is? Question: What model was used to base allocations? Answer: The allocation plan was done by a private engineering group and based upon (for all the regions) 25KHz slot, combiner configuration, and then split amongst counties based on population density. Question:: so progressive counties in growth what cushion is in there to help us? Answer: The consensus data was based on 2000. Comment: Every situation is going to be different and will have to be considered on a case by case basis. To repack the plan is expensive, and involves time. Comment: Keep in mind, you don't have just 6, you have 10 when you consider the state allocation you can work with. You can also go into CAPRAD ,using the geographically tools and look for free channels in your geographical area. You can do that. Your number will not be, just 6. Comment: Don't forget narrow banding will help expand the channel capability as well. Comment: Repack will only change in proportion to the counties beside you. It is not just a population but the frequency interference around you. Comment: Concern that there is no frequencies in the non metro Atlanta area, since Metro Atlanta already has a large allotment of frequencies. Comments: We have to be fair with everyone, and we will work with you guys and ensure that you share these resources at a local level. Comments: You will need to start looking at regional planning, especially if you are considering grants. Athens Clarke County is looking at a regional approach to frequency use.</p> <p>UASI Update –Richard Roley</p> <ul style="list-style-type: none"> • Started looking at the plan from a planning standpoint. • PSIC Regions will probably need to sit down and get together and do some planning, concerning the State planning as well on the GIN network. The 700 Plan gives you a lot of tricks in the back to use. The difficulty will be how to use the plans. Section 3 is the meat of the plan, which gives all the directions, coordination, and how the channels are used. Section 3.C & D The application points will be different in terms of submitting to the committee and then posting on CAPRAD for all to view, which is different from 800. There are changes with multi county simulcast systems. Currently the plan doesn't give you any help with this and you will have to do some planning, including looking at and sitting down with adjacent counties to get your plan together. Then see what frequencies you can bring together in the region for a simulcast system,. (2) you are allocated 25 KHX for each channel. It is set up as a 2 for 1 sale. You get 2 12.5 KHz channels. The plans says you are to use both channels. But with looking at adjacent channel interference, this may not be possible. The plan talks about "orphan" channels. The frequency coordinator will have to help look an see where "orphan" channels can be used in other counties. (3) Section 3.4 low power channel. (4) the plan talks about interference resolution. There are two receiver specifications A and B. This was done because of the rural area, because of the specifications that are not needed in rural verses metro areas. (5) we all need to sit down and identify how we are going to use and coordinate these channels and ensure that <u>WE ALL ARE WORKING TOGETHER</u>. (5) The other issues is information needs to be entered into CASM. <p>Final Comments: A lot of local planning and cooperation has do be done.</p> <p>Comment: Section 3.1 has a relinquishing spectrum, so when you do get allocated 700 MHz spectrum you have to come up with a "give back" plan for reallocation to the region. Comment: We look at all the frequencies you have allocated. Comment: By 2017 you have to have all your equipment at 6.25 KHz.</p> <p>Concerns: organization level; there is language in the by-law that 3 day notice will be sufficient. The FCC require at least a notice 30 days before meeting date and chair has to send out 45 days in advance. RECOMMEND: Change the bylaw to coincide with the FCC requirements. Concerns: there is conflicting language in the plan using filing windows and first come, first serve basis. Reflect on the intent – first come or windows? But it is difficult to use both together. Advantage of filing window – everyone has equal opportunity. First come, first serve is biased towards the larger organizations that need more planning</p>			

Region 10, Public Safety 700 MHz Communications Plan

#	Action	Resource	Due Date	Comments
	<p>Recommendation: Filing window plan.</p> <p>Further Discussion: The plan says there will be windows but no further clarification on start, end, and close processes.</p> <p>Comment: in a cursory review with the FCC this was not “red flagged” as an issue.</p> <p>Comment: if there is a contextual inconsistency, then we need to address it.</p> <p>Comment: if there is a scoring matrix to compare applications with, you can very easily rate the merits of the different applications.</p> <p>Comment: Textual issue, page 8, the top of the paragraph 3.1.A, all ...will be reviewed. This will give you more flexibility as an approval committee.</p> <p>Further Discussion: Agree the language in the document needs to be consistent. First come first serve has always been the way the FCC has worked. The group needs to decide which process they want to use; first come first serve, or the windows.</p> <p>Motion: Ron Hamlet :Change the bylaws so the notification for the meeting is 30 days instead of 3</p> <p>Second: Tom</p> <p>Vote: Approved</p> <p>Motion: Bob Davis - We make a decision for the process for processing application based upon the plan is on a first come, first service basis. The plan already has the frequencies allotted in it. And that we make the textual changes necessary to remove the references to window of time.</p> <p>Areas:</p> <p>Second: Tom</p> <p>Vote: Approved</p> <p>Motion: Howell McKinnon– motion to approve the plan</p> <p>Second: Bob Davis</p> <p>Vote: Approved</p>			
	<p>700 MHz Regulator Update – someone did respond to the second further notice of proposed rule making. (FNPRM DA 08-128)</p> <p>Website http://fjallfoss.fcc.gov/prod/ecfs/comsrch_v2.cgi</p> <p><i>Comments due – July 16, 2008.</i></p> <p><i>You can register and get the “daily digest” sent to you every day. Sign your email up. It is not a lot of email to weed through. It is very good. It is called the “Daily Digest.” You can Google, “FCC Daily Digest.”</i></p>			
	<p>NPSTC – Put out a proposal for a rule change for the 700 MHz plan.</p> <p>Figure 1: Interoperability Channel Changes</p> <p>Proposal: ERP is currently 2 watts, request to increase to 20</p> <p>Proposal: Calling channel, request bottom channel be changed to a “travel channel.” There was no way to communicate to responding units to communicate with local folks.</p> <p>Proposal: data channels, request that voice be secondary on these data changes.</p> <p><i>Second page:</i></p> <p>Proposal: Those circled are deployment channels, request: that reserve channels be changed to. (example: if a system was deployed in Alabama, this system would work on these changes.</p> <p>Comments: They want to add voice as a “secondary” function? Yes.</p>			

Region 10, Public Safety 700 MHz Communications Plan

#	Action	Resource	Due Date	Comments
	<p>Region 10. 700 MHz RPC Meeting – Officer positions</p> <p>Treasurer: Motion: Trudy – Paul Van Haute, Spalding. pvanhaute@spaldingcounty.com, 770 467 4242 Second: Howell McKinnon Vote: Approved.</p> <p>Motion: Carry forward the same slate of officers in place, with the exception of the Treasurer: Second: Howell McKinnon Vote: Approved</p> <p>Motion: Ron Hamlett: Continue with the personnel currently assigned to the subcommittee; Technical and Outreach, with the exception of the second person assigned to the Outreach committee. Second: Howell McKinnon Vote: Approved</p> <p>Outreach Nominee: Howell McKinnon, Athens Clarke County Motion: Tim, approve Howell as the second position on the Outreach committee Second: Bob Davis Vote: approved</p> <p>Positions as noted from November 14, 2006 meeting Region 1 – Howell McKinnon Region 2 - Vacant Region 3 – who? Region 4 – Ron Region 5 – Bob Davis Region 6 – Mike Monroe Region 7 – Tracy Region 8 - Vacant Region 9 – Rita Figaro</p> <p>Motion: Ron – re-elect existing regional representatives as stands right now. Second: Howell Vote: approved</p> <p>Research: Someone to research the best methods to keep the group informed, through some type of internet forum. Tim Earler has volunteered to look into the different options and report back to Jim and the group. Concern: Discuss groups can't get through agency firewalls. Suggestion: Tim Ealer work with Bob Davis. Get information back to the group.</p> <p>Agenda Items: We need to look at the agenda items we need to address at the next meeting, and when we can have the next meeting. As soon as an internet forum is identified it will help with sharing information with the group. Comment: Quarterly conference call or internet based meetings, instead of trying to get everyone together? Reply: It will be considered as an option. Suggestion: meet next year at the same time, and provide updates through a determined internet forum. Question: when can license requests be approved, if the plan is approved by February of 2009? Reply: we will do the best we can, based on approval time of our plan. Question: Will anything prohibit us from programming without a license? Reply: You are taking a chance to do something like that. We cannot control the schedule. Comment: utilize rebanding to pre-program the frequencies in the radios now.</p>			

Region 10, Public Safety 700 MHz Communications Plan

#	Action	Resource	Due Date	Comments
	Motion: to dispense the reading of the minutes and approve the minutes. Second: Tim Ealer Vote: Approved			
	Motion: to adjourn 12:13 pm			

Appendix E

700MHz Interoperability / Channel Nomenclature

16 CHANNEL SETS DESCRIPTION LABEL

Channel 23 & 24	General Public Safety Services (secondary trunked)	7TAC58
Channel 103 & 104	General Public Safety Services (secondary trunked)	7TAC62
Channel 183 & 184	General Public Safety Services (secondary trunked)	7TAC66
Channel 263 & 264	General Public Safety Services (secondary trunked)	7TAC70
Channel 39 & 40	Calling Channel *	7CAL59
Channel 119 & 120	General Public Safety Service *	7TAC63
Channel 199 & 200	General Public Safety Service	7TAC67
Channel 279 & 280	Mobile Data	7DAT71
Channel 63 & 64	Emergency Medical Service	7EMS60
Channel 143 & 144	Fire Service	7FIR64
Channel 223 & 224	Law Enforcement Service	7LAW68
Channel 303 & 304	Mobile Repeater *	7MOB68
Channel 79 & 80	Emergency Medical Service	7LAW85
Channel 159 & 160	Fire Service	7FIR65
Channel 239 & 240	Law Enforcement Service	7LAW69
Channel 319 & 320	Other Public Service *	7TAC73
Channel 657 & 658	General Public Safety Services (secondary trunked)	7TAC74
Channel 737 & 738	General Public Safety Services (secondary trunked)	7TAC78
Channel 817 & 818	General Public Safety Services (secondary trunked)	7TAC82
Channel 897 & 898	General Public Safety Services (secondary trunked)	7TAC86
Channel 681 & 682	Calling Channel *	7CAL75
Channel 761 & 762	General Public Safety Service *	7TAC79
Channel 841 & 842	General Public Safety Service	7TAC83
Channel 921 & 922	Mobile Data	7DAT87
Channel 641 & 642	Emergency Medical Service	7EMS76
Channel 721 & 742	Fire Service	7FIR80
Channel 801 & 802	Law Enforcement Service	7LAW84
Channel 881 & 882	Mobile Repeater *	7MOB88
Channel 697 & 698	Emergency Medical Service	7EMS77
Channel 777 & 778	Fire Services	7FIR81
Channel 857 & 858	Law Enforcement Service	7LAW85
Channel 937 & 938	Other Public Services*	7TAC89

For Specific Uses/Services * - Mandatory

Appendix F

NCC 700MHz Pre-Assignment Rules and Recommendations

Simplified 700 MHz Pre-assignment Rules

Introduction

This attachment 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.

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 dB μ 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 dB μ interfering contour will be allowed to touch but not overlap the 40 dB μ service contour of the system being evaluated. All contours are (50,50).

For adjacent and alternate channels, the 60 dB μ interfering contour will be allowed to touch but not overlap the 40 dB μ 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 1 μ V/m (customarily denoted as 40 dB μ). 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 dB μ 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 ($\lambda/2$) 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 reduction¹ 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.

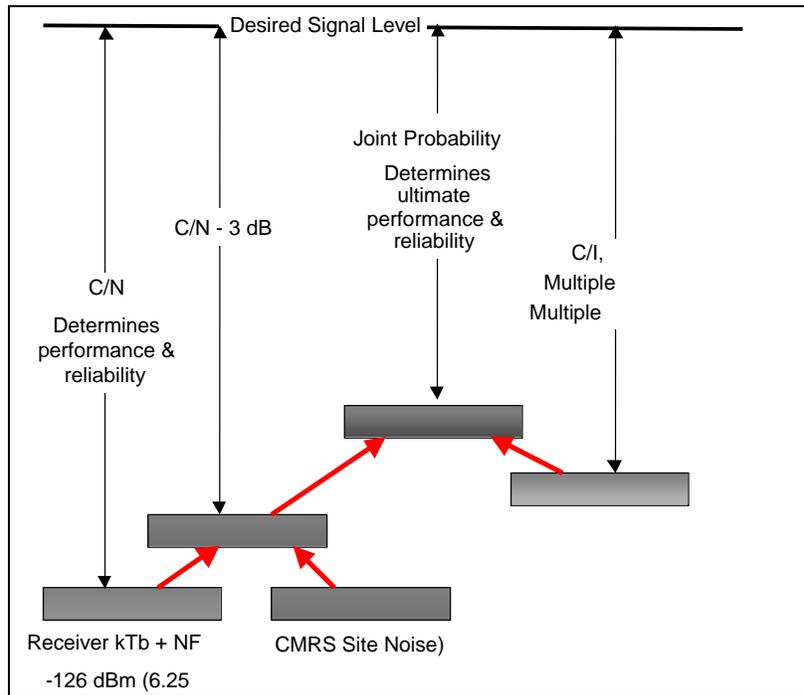


Figure 1 - Interfering Sources Create A “Noise” Level Influencing Reliability

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 TIA TR8 made this 3 dB allowance for CMRS OOBE noise during the meetings in Mesa, AZ, January 2001.

<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 OOB) 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 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-building³ coverage and the requirement for >95 % reliable coverage. To analyze the impact of

² See Appendix A for an explanation of how the 1% interference value is defined and derived.

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

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.
- 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 OOB 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.

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 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

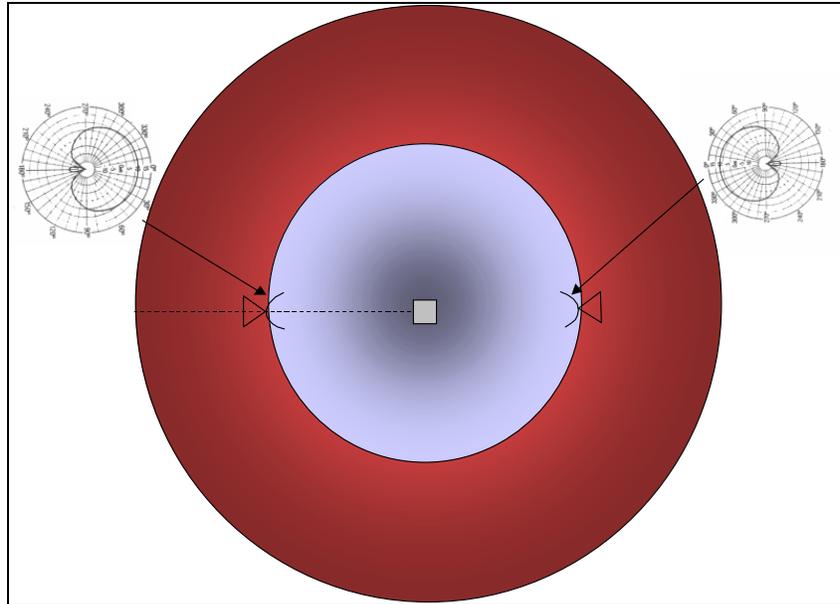


Figure 3 - Antenna Configuration Required To Limit Field Strength Off "Backside"

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 dB μ . 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 optimistic 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 dB μ . 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.

Downtilting of antennas, instead of directional antennas, to control the 40 dB μ is not practical, in this scenario. For a 200 foot tall tower, the center of radiation from a 3 dB down-tilt antenna hits the ground at ~ 0.75 miles⁴. 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 dB μ service contour be less than 5 miles away.

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.

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Tables 3 and 4 represent the same configuration, but for less dense buildings. In these cases, the distance to extend the 40 dB μ 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)

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 (dBμ)	Field Strength (dBμ)
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.

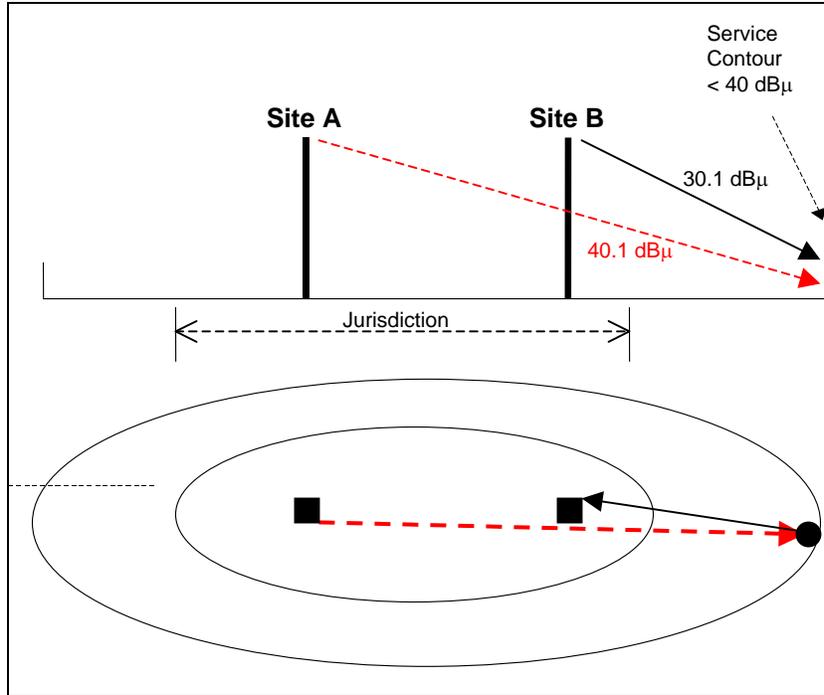


Figure 3a. Scenario 1 on of Use of Table 5

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 Appendix 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 Appendix 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 μ Field Strength

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

Interfering Contour

Table 1 above 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 dB μ 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 dB μ (50,50) service contour to extend beyond the edge of the defined service area by the distance indicated in Table 6.
- Allow the 5 dB μ (50,50) interfering contour to intercept but not overlap the 40 dB μ service contour.

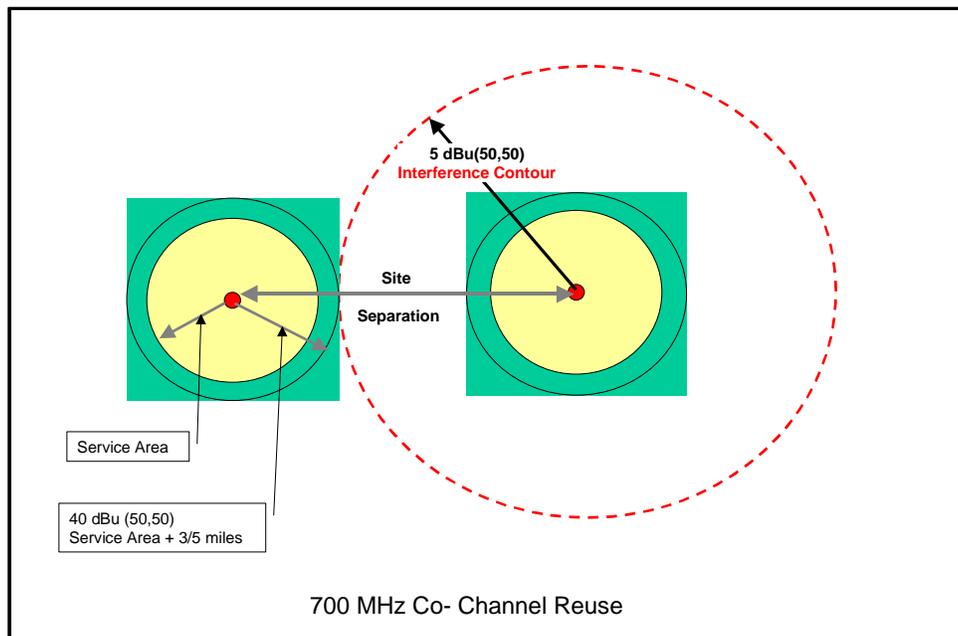


Figure 4 - Co-Channel Reuse Criterion

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 bandwidth. 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 dB μ 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.

Project 25 requires that a transceiver receiver have an ACIPR of 60 dB. This implies that an ACCPR \geq 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.

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 ≥ 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.

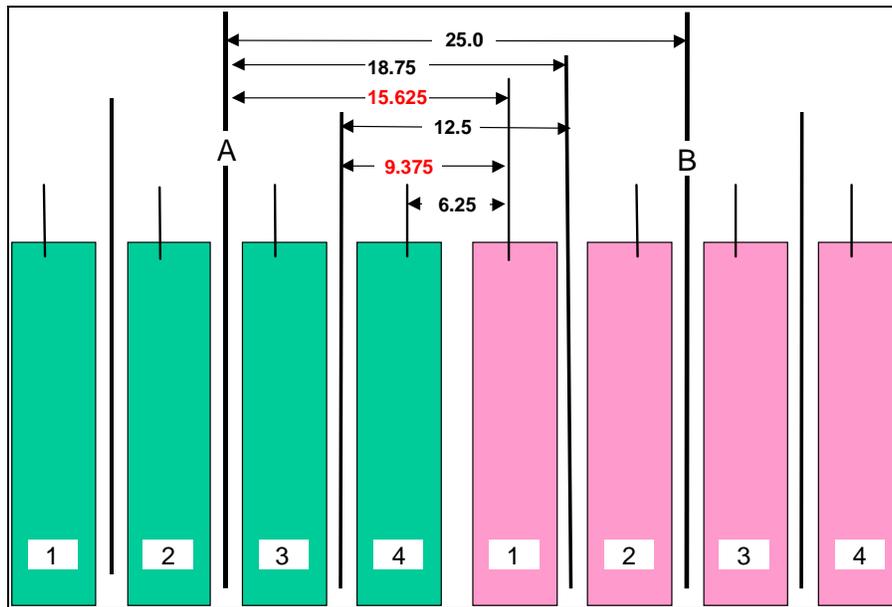


Figure 5, Potential Frequency Separations

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

All cases meet or exceed the FCC requirement. The most troublesome cases occur where the wider bandwidths are working against a Project 25 Phase 2 narrowband 6.25 kHz channel. This pre-coordination based upon 25 kHz spectrum blocks still works if system designers and frequency coordinators keep this consideration in mind and move the edge 6.25 kHz channels inward away from the edge of the system. This approach allows a constant value of 65 dB ACCPR to be applied across all 25 kHz spectrum blocks regardless of what channel bandwidth is eventually deployed. There will also be additional coordination adjustments when exact system design details and antenna sites are known.

For spectrum blocks spaced farther away, it must be assumed that transmitter filtering, in addition to transmitter performance improvements due to greater frequency separation, will further reduce the ACCPR.

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 dB μ service contour, at 60 dB μ .

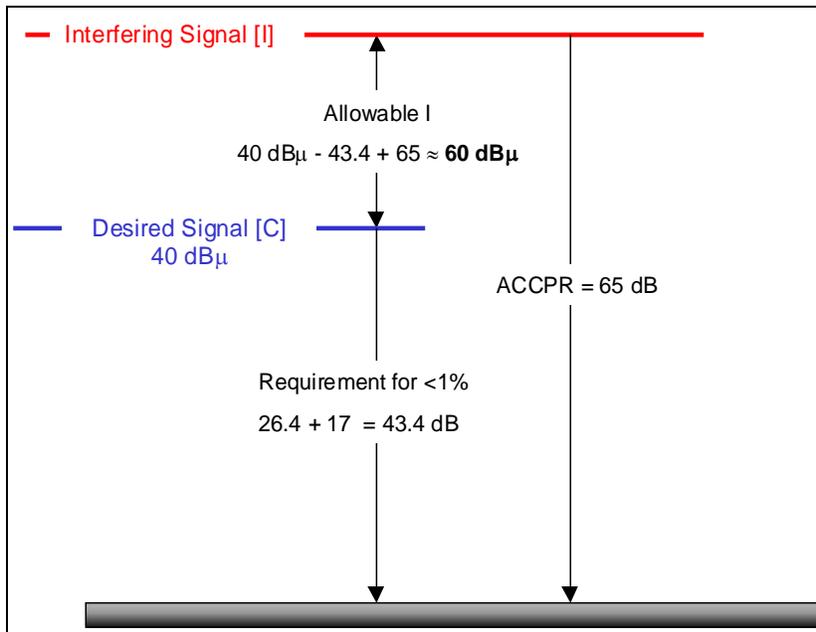
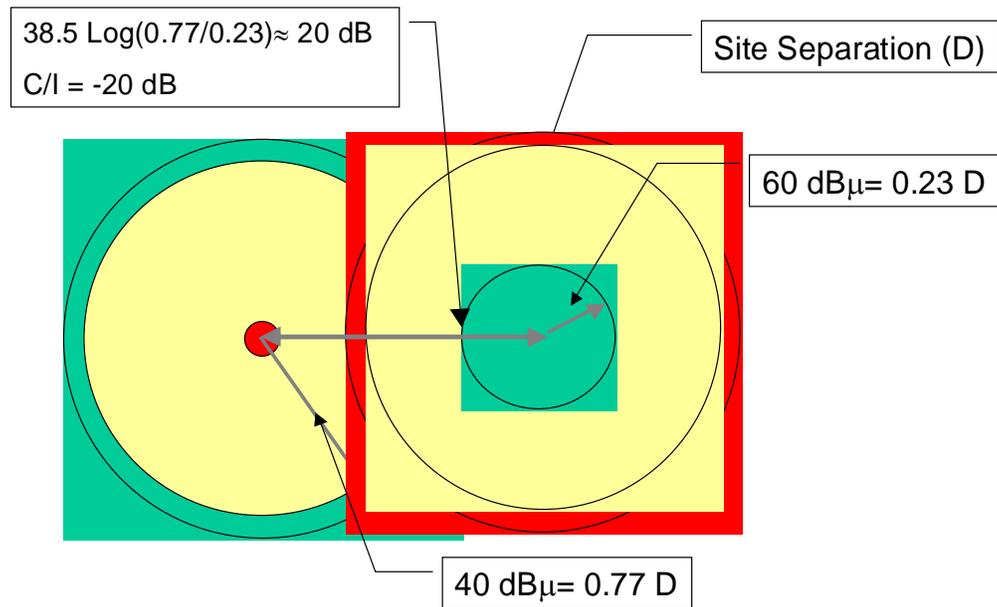


Figure 6 - Adjusted Adjacent 25 kHz Channel Interfering Contour Value



65 dB ACCPR, Based on P25 Requirements of 60 dB ACIPR

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 dB μ (50,50) interfering contour touch but not overlap the 40 dB μ (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.

Appendix 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.

$$\frac{C}{I} \% = \frac{1}{2} \cdot \operatorname{erfc} \left(\frac{\frac{C}{I} \text{ margin}}{2\sigma} \right) \quad (1)$$

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, $Z = 1.28$.

$$\frac{C}{I} \% = Z \cdot \sqrt{2} \cdot \sigma \quad (2)$$

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.

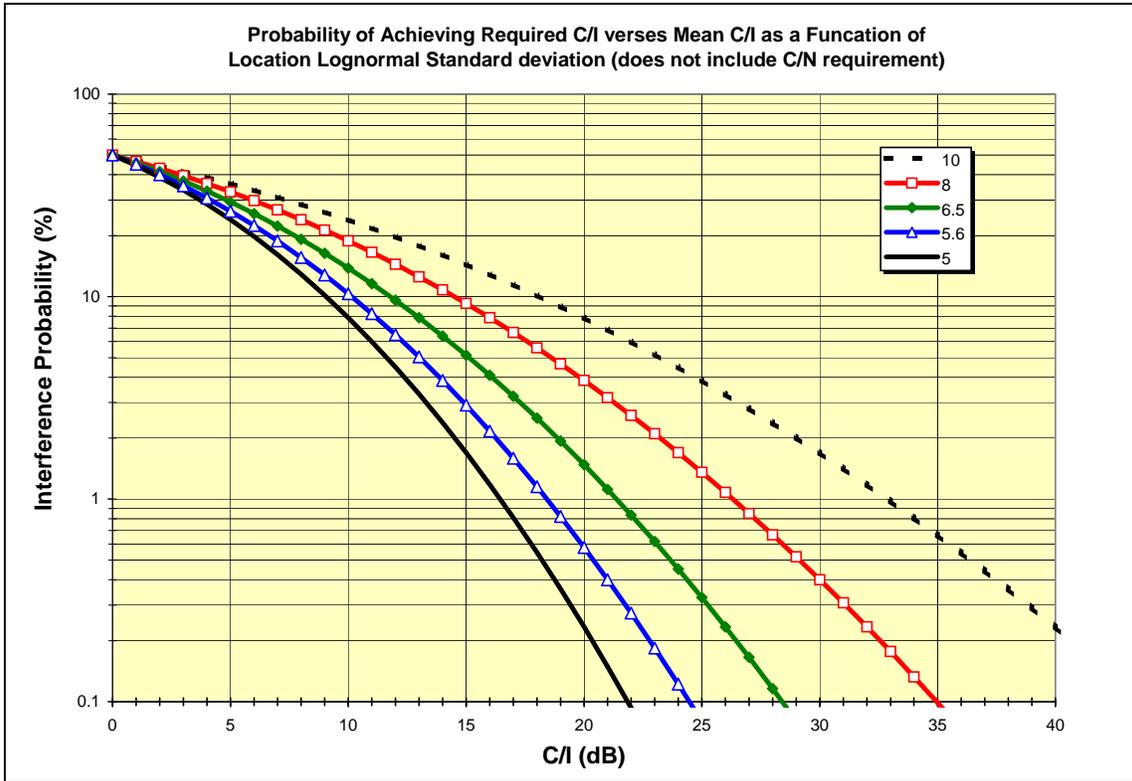


Figure A1, Probability Of Achieving Required C/I As A Function Of Location Standard Deviation

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%.

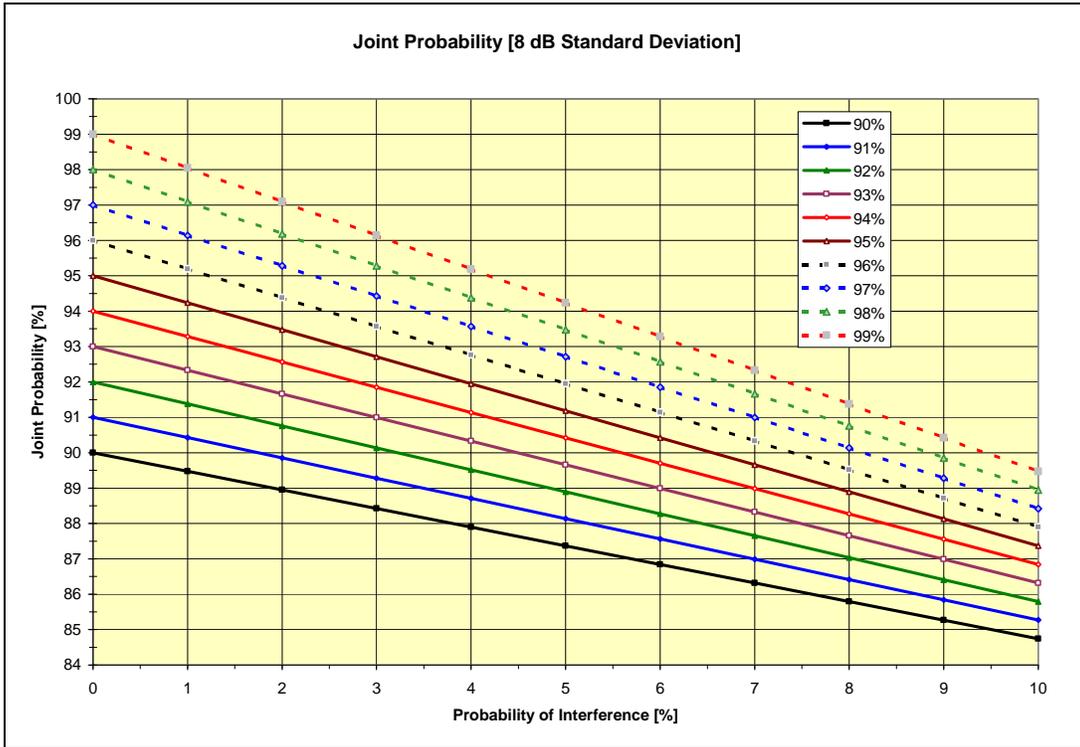
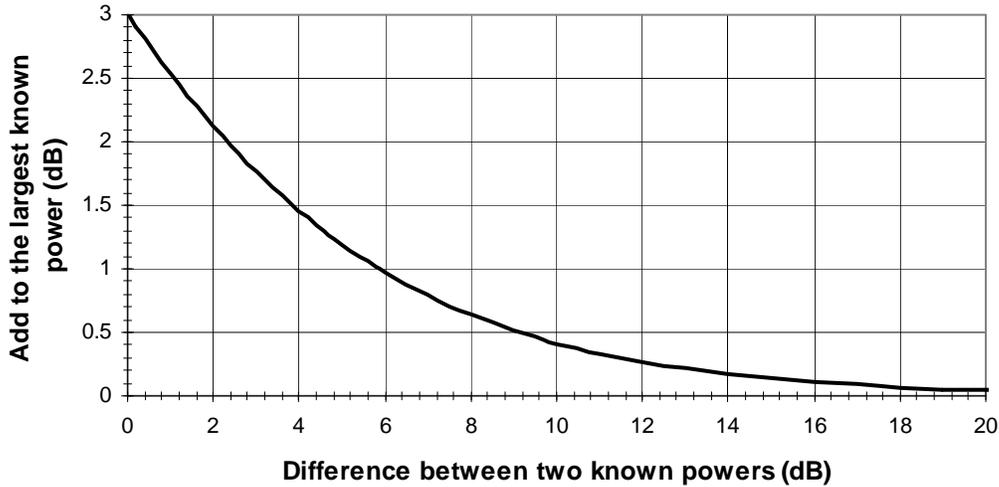


Figure A2 - Effect Of Joint Probability On The Composite Probability

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.

Appendix B

Adding Two Known Non-Coherent Powers



In order to sum the power of two or more signals expressed in dBm or dBμ, they 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 dB

Appendix G

Region 10

700MHz Spectrum Allocations

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
Appling	Voice 25KHz	45-48	769.2875	799.2875
	Voice 25KHz	349-352	771.1875	801.1875
	Voice 25KHz	397-400	771.4875	801.4875
	Voice 25KHz	441-444	771.7625	801.7625
	Voice 25KHz	489-492	772.0625	802.0625
	Voice 25KHz	669-672	773.1875	803.1875
	Voice 25KHz	717-720	773.4875	803.4875
	Voice 25KHz	821-824	774.1375	804.1375
Atkinson	Voice 25KHz	353-356	771.2125	801.2125
	Voice 25KHz	393-396	771.4625	801.4625
	Voice 25KHz	477-480	771.9875	801.9875
	Voice 25KHz	533-536	772.3375	802.3375
	Voice 25KHz	677-680	773.2375	803.2375
	Voice 25KHz	781-784	773.8875	803.8875
	Voice 25KHz	825-828	774.1625	804.1625
Bacon	Voice 25KHz	17-20	769.1125	799.1125
	Voice 25KHz	257-260	770.6125	800.6125
	Voice 25KHz	453-456	771.8375	801.8375
	Voice 25KHz	585-588	772.6625	802.6625
	Voice 25KHz	633-636	772.9625	802.9625
Baker	Voice 25KHz	501-504	772.1375	802.1375
	Voice 25KHz	541-544	772.3875	802.3875
	Voice 25KHz	593-596	772.7125	802.7125
	Voice 25KHz	789-792	773.9375	803.9375
	Voice 25KHz	829-832	774.1875	804.1875
Baldwin	Voice 25KHz	137-140	769.8625	799.8625
	Voice 25KHz	217-220	770.3625	800.3625
	Voice 25KHz	257-260	770.6125	800.6125
	Voice 25KHz	329-332	771.0625	801.0625
	Voice 25KHz	401-404	771.5125	801.5125
	Voice 25KHz	465-468	771.9125	801.9125
	Voice 25KHz	509-512	772.1875	802.1875
	Voice 25KHz	573-576	772.5875	802.5875
	Voice 25KHz	637-640	772.9875	802.9875
	Voice 25KHz	781-784	773.8875	803.8875
	Voice 25KHz	861-864	774.3875	804.3875
	Voice 25KHz	909-912	774.6875	804.6875
	Banks	Voice 25KHz	165-168	770.0375
Voice 25KHz		381-384	771.3875	801.3875
Voice 25KHz		489-492	772.0625	802.0625
Voice 25KHz		541-544	772.3875	802.3875
Voice 25KHz		821-824	774.1375	804.1375
Barrow	Voice 25KHz	45-48	769.2875	799.2875
	Voice 25KHz	385-388	771.4125	801.4125
	Voice 25KHz	497-500	772.1125	802.1125
	Voice 25KHz	573-576	772.5875	802.5875

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	917-920	774.7375	804.7375
Bartow	Voice 25KHz	45-48	769.2875	799.2875
	Voice 25KHz	433-436	771.7125	801.7125
	Voice 25KHz	489-492	772.0625	802.0625
	Voice 25KHz	565-568	772.5375	802.5375
	Voice 25KHz	753-756	773.7125	803.7125
	Voice 25KHz	821-824	774.1375	804.1375
	Voice 25KHz	941-944	774.8875	804.8875
Ben Hill	Voice 25KHz	241-244	770.5125	800.5125
	Voice 25KHz	389-392	771.4375	801.4375
	Voice 25KHz	501-504	772.1375	802.1375
	Voice 25KHz	549-552	772.4375	802.4375
	Voice 25KHz	601-604	772.7625	802.7625
	Voice 25KHz	709-712	773.4375	803.4375
	Voice 25KHz	829-832	774.1875	804.1875
Berrien	Voice 25KHz	245-248	770.5375	800.5375
	Voice 25KHz	401-404	771.5125	801.5125
	Voice 25KHz	465-468	771.9125	801.9125
	Voice 25KHz	557-560	772.4875	802.4875
	Voice 25KHz	757-760	773.7375	803.7375
	Voice 25KHz	797-800	773.9875	803.9875
	Voice 25KHz	877-880	774.4875	804.4875
Bibb	Voice 25KHz	41-44	769.2625	799.2625
	Voice 25KHz	81-84	769.5125	799.5125
	Voice 25KHz	121-124	769.7625	799.7625
	Voice 25KHz	165-168	770.0375	800.0375
	Voice 25KHz	241-244	770.5125	800.5125
	Voice 25KHz	293-296	770.8375	800.8375
	Voice 25KHz	357-360	771.2375	801.2375
	Voice 25KHz	397-400	771.4875	801.4875
	Voice 25KHz	457-460	771.8625	801.8625
	Voice 25KHz	545-548	772.4125	802.4125
	Voice 25KHz	625-628	772.9125	802.9125
	Voice 25KHz	705-708	773.4125	803.4125
	Voice 25KHz	757-760	773.7375	803.7375
	Voice 25KHz	797-800	773.9875	803.9875
	Voice 25KHz	865-868	774.4125	804.4125
	Voice 25KHz	905-908	774.6625	804.6625
	Voice 25KHz	945-948	774.9125	804.9125
Bleckley	Voice 25KHz	85-88	769.5375	799.5375
	Voice 25KHz	325-328	771.0375	801.0375
	Voice 25KHz	441-444	771.7625	801.7625
	Voice 25KHz	481-484	772.0125	802.0125
	Voice 25KHz	621-624	772.8875	802.8875
	Voice 25KHz	713-716	773.4625	803.4625
	Voice 25KHz	941-944	774.8875	804.8875

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
Brantley	Voice 25KHz	169-172	770.0625	800.0625
	Voice 25KHz	357-360	771.2375	801.2375
	Voice 25KHz	449-452	771.8125	801.8125
	Voice 25KHz	493-496	772.0875	802.0875
	Voice 25KHz	581-584	772.6375	802.6375
	Voice 25KHz	621-624	772.8875	802.8875
	Voice 25KHz	705-708	773.4125	803.4125
Brooks	Voice 25KHz	57-60	769.3625	799.3625
	Voice 25KHz	373-376	771.3375	801.3375
	Voice 25KHz	445-448	771.7875	801.7875
	Voice 25KHz	525-528	772.2875	802.2875
	Voice 25KHz	597-600	772.7375	802.7375
	Voice 25KHz	701-704	773.3875	803.3875
Bryan	Voice 25KHz	13-16	769.0875	799.0875
	Voice 25KHz	253-256	770.5875	800.5875
	Voice 25KHz	369-372	771.3125	801.3125
	Voice 25KHz	417-420	771.6125	801.6125
	Voice 25KHz	465-468	771.9125	801.9125
	Voice 25KHz	553-556	772.4625	802.4625
Bulloch	Voice 25KHz	789-792	773.9375	803.9375
	Voice 25KHz	81-84	769.5125	799.5125
	Voice 25KHz	121-124	769.7625	799.7625
	Voice 25KHz	241-244	770.5125	800.5125
	Voice 25KHz	321-324	771.0125	801.0125
	Voice 25KHz	361-364	771.2625	801.2625
	Voice 25KHz	409-412	771.5625	801.5625
	Voice 25KHz	473-476	771.9625	801.9625
	Voice 25KHz	533-536	772.3375	802.3375
	Voice 25KHz	585-588	772.6625	802.6625
	Voice 25KHz	633-636	772.9625	802.9625
	Voice 25KHz	713-716	773.4625	803.4625
	Voice 25KHz	753-756	773.7125	803.7125
	Voice 25KHz	797-800	773.9875	803.9875
Burke	Voice 25KHz	861-864	774.3875	804.3875
	Voice 25KHz	913-916	774.7125	804.7125
	Voice 25KHz	41-44	769.2625	799.2625
	Voice 25KHz	85-88	769.5375	799.5375
	Voice 25KHz	133-136	769.8375	799.8375
	Voice 25KHz	337-340	771.1125	801.1125
	Voice 25KHz	377-380	771.3625	801.3625
	Voice 25KHz	417-420	771.6125	801.6125
	Voice 25KHz	589-592	772.6875	802.6875
	Voice 25KHz	637-640	772.9875	802.9875
Butts	Voice 25KHz	453-456	771.8375	801.8375
	Voice 25KHz	505-508	772.1625	802.1625
	Voice 25KHz	553-556	772.4625	802.4625

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	621-624	772.8875	802.8875
	Voice 25KHz	745-748	773.6625	803.6625
	Voice 25KHz	793-796	773.9625	803.9625
Calhoun	Voice 25KHz	413-416	771.5875	801.5875
	Voice 25KHz	557-560	772.4875	802.4875
	Voice 25KHz	757-760	773.7375	803.7375
	Voice 25KHz	797-800	773.9875	803.9875
	Voice 25KHz	877-880	774.4875	804.4875
Camden	Voice 25KHz	13-16	769.0875	799.0875
	Voice 25KHz	89-92	769.5625	799.5625
	Voice 25KHz	129-132	769.8125	799.8125
	Voice 25KHz	217-220	770.3625	800.3625
	Voice 25KHz	321-324	771.0125	801.0125
	Voice 25KHz	369-372	771.3125	801.3125
	Voice 25KHz	457-460	771.8625	801.8625
	Voice 25KHz	501-504	772.1375	802.1375
	Voice 25KHz	553-556	772.4625	802.4625
	Voice 25KHz	601-604	772.7625	802.7625
	Voice 25KHz	745-748	773.6625	803.6625
	Voice 25KHz	789-792	773.9375	803.9375
	Voice 25KHz	873-876	774.4625	804.4625
	Voice 25KHz	945-948	774.9125	804.9125
Candler	Voice 25KHz	17-20	769.1125	799.1125
	Voice 25KHz	129-132	769.8125	799.8125
	Voice 25KHz	257-260	770.6125	800.6125
	Voice 25KHz	373-376	771.3375	801.3375
	Voice 25KHz	493-496	772.0875	802.0875
	Voice 25KHz	601-604	772.7625	802.7625
	Voice 25KHz	745-748	773.6625	803.6625
	Voice 25KHz	833-836	774.2125	804.2125
Carroll	Voice 25KHz	49-52	769.3125	799.3125
	Voice 25KHz	217-220	770.3625	800.3625
	Voice 25KHz	297-300	770.8625	800.8625
	Voice 25KHz	449-452	771.8125	801.8125
	Voice 25KHz	493-496	772.0875	802.0875
	Voice 25KHz	573-576	772.5875	802.5875
	Voice 25KHz	661-664	773.1375	803.1375
	Voice 25KHz	825-828	774.1625	804.1625
	Voice 25KHz	865-868	774.4125	804.4125
Catoosa	Voice 25KHz	169-172	770.0625	800.0625
	Voice 25KHz	357-360	771.2375	801.2375
	Voice 25KHz	413-416	771.5875	801.5875
	Voice 25KHz	453-456	771.8375	801.8375
	Voice 25KHz	529-532	772.3125	802.3125
Charlton	Voice 25KHz	245-248	770.5375	800.5375
	Voice 25KHz	417-420	771.6125	801.6125

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	465-468	771.9125	801.9125
	Voice 25KHz	537-540	772.3625	802.3625
	Voice 25KHz	613-616	772.8375	802.8375
	Voice 25KHz	665-668	773.1625	803.1625
Chatham	Voice 25KHz	41-44	769.2625	799.2625
	Voice 25KHz	85-88	769.5375	799.5375
	Voice 25KHz	125-128	769.7875	799.7875
	Voice 25KHz	165-168	770.0375	800.0375
	Voice 25KHz	205-208	770.2875	800.2875
	Voice 25KHz	245-248	770.5375	800.5375
	Voice 25KHz	285-288	770.7875	800.7875
	Voice 25KHz	341-344	771.1375	801.1375
	Voice 25KHz	381-384	771.3875	801.3875
	Voice 25KHz	437-440	771.7375	801.7375
	Voice 25KHz	477-480	771.9875	801.9875
	Voice 25KHz	525-528	772.2875	802.2875
	Voice 25KHz	565-568	772.5375	802.5375
	Voice 25KHz	605-608	772.7875	802.7875
	Voice 25KHz	661-664	773.1375	803.1375
	Voice 25KHz	717-720	773.4875	803.4875
	Voice 25KHz	757-760	773.7375	803.7375
	Voice 25KHz	825-828	774.1625	804.1625
	Voice 25KHz	865-868	774.4125	804.4125
	Voice 25KHz	905-908	774.6625	804.6625
	Voice 25KHz	945-948	774.9125	804.9125
Chattahoochee	Voice 25KHz	297-300	770.8625	800.8625
	Voice 25KHz	337-340	771.1125	801.1125
	Voice 25KHz	377-380	771.3625	801.3625
	Voice 25KHz	433-436	771.7125	801.7125
	Voice 25KHz	481-484	772.0125	802.0125
	Voice 25KHz	561-564	772.5125	802.5125
Chattooga	Voice 25KHz	321-324	771.0125	801.0125
	Voice 25KHz	373-376	771.3375	801.3375
	Voice 25KHz	429-432	771.6875	801.6875
	Voice 25KHz	533-536	772.3375	802.3375
	Voice 25KHz	901-904	774.6375	804.6375
Cherokee	Voice 25KHz	17-20	769.1125	799.1125
	Voice 25KHz	325-328	771.0375	801.0375
	Voice 25KHz	409-412	771.5625	801.5625
	Voice 25KHz	465-468	771.9125	801.9125
	Voice 25KHz	513-516	772.2125	802.2125
	Voice 25KHz	581-584	772.6375	802.6375
	Voice 25KHz	621-624	772.8875	802.8875
Clarke	Voice 25KHz	17-20	769.1125	799.1125
	Voice 25KHz	245-248	770.5375	800.5375
	Voice 25KHz	289-292	770.8125	800.8125

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	409-412	771.5625	801.5625
	Voice 25KHz	465-468	771.9125	801.9125
	Voice 25KHz	525-528	772.2875	802.2875
	Voice 25KHz	581-584	772.6375	802.6375
	Voice 25KHz	621-624	772.8875	802.8875
	Voice 25KHz	677-680	773.2375	803.2375
	Voice 25KHz	753-756	773.7125	803.7125
Clay	Voice 25KHz	93-96	769.5875	799.5875
	Voice 25KHz	173-176	770.0875	800.0875
	Voice 25KHz	213-216	770.3375	800.3375
	Voice 25KHz	257-260	770.6125	800.6125
	Voice 25KHz	497-500	772.1125	802.1125
	Voice 25KHz	569-572	772.5625	802.5625
	Voice 25KHz	609-612	772.8125	802.8125
	Voice 25KHz	665-668	773.1625	803.1625
Clayton	Voice 25KHz	245-248	770.5375	800.5375
	Voice 25KHz	357-360	771.2375	801.2375
	Voice 25KHz	457-460	771.8625	801.8625
	Voice 25KHz	525-528	772.2875	802.2875
	Voice 25KHz	577-580	772.6125	802.6125
	Voice 25KHz	701-704	773.3875	803.3875
	Voice 25KHz	741-744	773.6375	803.6375
	Voice 25KHz	797-800	773.9875	803.9875
	Voice 25KHz	861-864	774.3875	804.3875
Clinch	Voice 25KHz	297-300	770.8625	800.8625
	Voice 25KHz	361-364	771.2625	801.2625
	Voice 25KHz	425-428	771.6625	801.6625
	Voice 25KHz	513-516	772.2125	802.2125
	Voice 25KHz	637-640	772.9875	802.9875
Cobb	Voice 25KHz	169-172	770.0625	800.0625
	Voice 25KHz	213-216	770.3375	800.3375
	Voice 25KHz	289-292	770.8125	800.8125
	Voice 25KHz	337-340	771.1125	801.1125
	Voice 25KHz	381-384	771.3875	801.3875
	Voice 25KHz	453-456	771.8375	801.8375
	Voice 25KHz	501-504	772.1375	802.1375
	Voice 25KHz	541-544	772.3875	802.3875
	Voice 25KHz	601-604	772.7625	802.7625
	Voice 25KHz	677-680	773.2375	803.2375
	Voice 25KHz	717-720	773.4875	803.4875
	Voice 25KHz	789-792	773.9375	803.9375
	Voice 25KHz	869-872	774.4375	804.4375
	Voice 25KHz	913-916	774.7125	804.7125
Coffee	Voice 25KHz	81-84	769.5125	799.5125
	Voice 25KHz	121-124	769.7625	799.7625
	Voice 25KHz	165-168	770.0375	800.0375

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	217-220	770.3625	800.3625
	Voice 25KHz	325-328	771.0375	801.0375
	Voice 25KHz	369-372	771.3125	801.3125
	Voice 25KHz	421-424	771.6375	801.6375
	Voice 25KHz	517-520	772.2375	802.2375
	Voice 25KHz	573-576	772.5875	802.5875
	Voice 25KHz	625-628	772.9125	802.9125
	Voice 25KHz	745-748	773.6625	803.6625
	Voice 25KHz	865-868	774.4125	804.4125
	Voice 25KHz	905-908	774.6625	804.6625
	Voice 25KHz	945-948	774.9125	804.9125
Colquitt	Voice 25KHz	97-100	769.6125	799.6125
	Voice 25KHz	137-140	769.8625	799.8625
	Voice 25KHz	177-180	770.1125	800.1125
	Voice 25KHz	253-256	770.5875	800.5875
	Voice 25KHz	293-296	770.8375	800.8375
	Voice 25KHz	357-360	771.2375	801.2375
	Voice 25KHz	409-412	771.5625	801.5625
	Voice 25KHz	453-456	771.8375	801.8375
	Voice 25KHz	537-540	772.3625	802.3625
	Voice 25KHz	577-580	772.6125	802.6125
	Voice 25KHz	633-636	772.9625	802.9625
	Voice 25KHz	673-676	773.2125	803.2125
	Voice 25KHz	917-920	774.7375	804.7375
Columbia	Voice 25KHz	17-20	769.1125	799.1125
	Voice 25KHz	177-180	770.1125	800.1125
	Voice 25KHz	217-220	770.3625	800.3625
	Voice 25KHz	285-288	770.7875	800.7875
	Voice 25KHz	345-348	771.1625	801.1625
	Voice 25KHz	385-388	771.4125	801.4125
	Voice 25KHz	453-456	771.8375	801.8375
	Voice 25KHz	493-496	772.0875	802.0875
	Voice 25KHz	545-548	772.4125	802.4125
	Voice 25KHz	597-600	772.7375	802.7375
	Voice 25KHz	757-760	773.7375	803.7375
	Voice 25KHz	861-864	774.3875	804.3875
Cook	Voice 25KHz	205-208	770.2875	800.2875
	Voice 25KHz	341-344	771.1375	801.1375
	Voice 25KHz	381-384	771.3875	801.3875
	Voice 25KHz	485-488	772.0375	802.0375
	Voice 25KHz	617-620	772.8625	802.8625
	Voice 25KHz	741-744	773.6375	803.6375
	Voice 25KHz	869-872	774.4375	804.4375
Coweta	Voice 25KHz	57-60	769.3625	799.3625
	Voice 25KHz	333-336	771.0875	801.0875
	Voice 25KHz	421-424	771.6375	801.6375

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	545-548	772.4125	802.4125
	Voice 25KHz	589-592	772.6875	802.6875
	Voice 25KHz	713-716	773.4625	803.4625
	Voice 25KHz	873-876	774.4625	804.4625
	Voice 25KHz	917-920	774.7375	804.7375
Crawford	Voice 25KHz	49-52	769.3125	799.3125
	Voice 25KHz	493-496	772.0875	802.0875
	Voice 25KHz	557-560	772.4875	802.4875
	Voice 25KHz	601-604	772.7625	802.7625
	Voice 25KHz	717-720	773.4875	803.4875
Crisp	Voice 25KHz	53-56	769.3375	799.3375
	Voice 25KHz	125-128	769.7875	799.7875
	Voice 25KHz	257-260	770.6125	800.6125
	Voice 25KHz	297-300	770.8625	800.8625
	Voice 25KHz	397-400	771.4875	801.4875
	Voice 25KHz	497-500	772.1125	802.1125
	Voice 25KHz	569-572	772.5625	802.5625
	Voice 25KHz	637-640	772.9875	802.9875
	Voice 25KHz	833-836	774.2125	804.2125
Dade	Voice 25KHz	329-332	771.0625	801.0625
	Voice 25KHz	445-448	771.7875	801.7875
	Voice 25KHz	517-520	772.2375	802.2375
	Voice 25KHz	633-636	772.9625	802.9625
	Voice 25KHz	877-880	774.4875	804.4875
Dawson	Voice 25KHz	49-52	769.3125	799.3125
	Voice 25KHz	253-256	770.5875	800.5875
	Voice 25KHz	389-392	771.4375	801.4375
	Voice 25KHz	537-540	772.3625	802.3625
	Voice 25KHz	673-676	773.2125	803.2125
DeKalb	Voice 25KHz	13-16	769.0875	799.0875
	Voice 25KHz	53-56	769.3375	799.3375
	Voice 25KHz	129-132	769.8125	799.8125
	Voice 25KHz	177-180	770.1125	800.1125
	Voice 25KHz	257-260	770.6125	800.6125
	Voice 25KHz	329-332	771.0625	801.0625
	Voice 25KHz	369-372	771.3125	801.3125
	Voice 25KHz	429-432	771.6875	801.6875
	Voice 25KHz	469-472	771.9375	801.9375
	Voice 25KHz	509-512	772.1875	802.1875
	Voice 25KHz	549-552	772.4375	802.4375
	Voice 25KHz	613-616	772.8375	802.8375
	Voice 25KHz	781-784	773.8875	803.8875
	Voice 25KHz	877-880	774.4875	804.4875
Decatur	Voice 25KHz	241-244	770.5125	800.5125
	Voice 25KHz	285-288	770.7875	800.7875
	Voice 25KHz	349-352	771.1875	801.1875

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	389-392	771.4375	801.4375
	Voice 25KHz	449-452	771.8125	801.8125
	Voice 25KHz	521-524	772.2625	802.2625
	Voice 25KHz	561-564	772.5125	802.5125
	Voice 25KHz	617-620	772.8625	802.8625
	Voice 25KHz	661-664	773.1375	803.1375
	Voice 25KHz	837-840	774.2375	804.2375
Dodge	Voice 25KHz	201-204	770.2625	800.2625
	Voice 25KHz	337-340	771.1125	801.1125
	Voice 25KHz	433-436	771.7125	801.7125
	Voice 25KHz	521-524	772.2625	802.2625
	Voice 25KHz	561-564	772.5125	802.5125
	Voice 25KHz	629-632	772.9375	802.9375
	Voice 25KHz	749-752	773.6875	803.6875
	Voice 25KHz	913-916	774.7125	804.7125
Dooly	Voice 25KHz	45-48	769.2875	799.2875
	Voice 25KHz	381-384	771.3875	801.3875
	Voice 25KHz	421-424	771.6375	801.6375
	Voice 25KHz	533-536	772.3375	802.3375
	Voice 25KHz	609-612	772.8125	802.8125
	Voice 25KHz	701-704	773.3875	803.3875
Dougherty	Voice 25KHz	13-16	769.0875	799.0875
	Voice 25KHz	81-84	769.5125	799.5125
	Voice 25KHz	121-124	769.7625	799.7625
	Voice 25KHz	161-164	770.0125	800.0125
	Voice 25KHz	201-204	770.2625	800.2625
	Voice 25KHz	249-252	770.5625	800.5625
	Voice 25KHz	289-292	770.8125	800.8125
	Voice 25KHz	337-340	771.1125	801.1125
	Voice 25KHz	393-396	771.4625	801.4625
	Voice 25KHz	433-436	771.7125	801.7125
	Voice 25KHz	513-516	772.2125	802.2125
	Voice 25KHz	573-576	772.5875	802.5875
	Voice 25KHz	613-616	772.8375	802.8375
	Voice 25KHz	677-680	773.2375	803.2375
	Voice 25KHz	717-720	773.4875	803.4875
	Voice 25KHz	781-784	773.8875	803.8875
	Voice 25KHz	821-824	774.1375	804.1375
	Voice 25KHz	861-864	774.3875	804.3875
	Voice 25KHz	901-904	774.6375	804.6375
	Voice 25KHz	941-944	774.8875	804.8875
Douglas	Voice 25KHz	93-96	769.5875	799.5875
	Voice 25KHz	373-376	771.3375	801.3375
	Voice 25KHz	413-416	771.5875	801.5875
	Voice 25KHz	461-464	771.8875	801.8875
	Voice 25KHz	553-556	772.4625	802.4625

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	609-612	772.8125	802.8125
	Voice 25KHz	745-748	773.6625	803.6625
Early	Voice 25KHz	41-44	769.2625	799.2625
	Voice 25KHz	129-132	769.8125	799.8125
	Voice 25KHz	297-300	770.8625	800.8625
	Voice 25KHz	353-356	771.2125	801.2125
	Voice 25KHz	453-456	771.8375	801.8375
	Voice 25KHz	549-552	772.4375	802.4375
	Voice 25KHz	637-640	772.9875	802.9875
Echols	Voice 25KHz	13-16	769.0875	799.0875
	Voice 25KHz	201-204	770.2625	800.2625
	Voice 25KHz	241-244	770.5125	800.5125
	Voice 25KHz	489-492	772.0625	802.0625
	Voice 25KHz	561-564	772.5125	802.5125
	Voice 25KHz	629-632	772.9375	802.9375
	Voice 25KHz	669-672	773.1875	803.1875
Effingham	Voice 25KHz	49-52	769.3125	799.3125
	Voice 25KHz	137-140	769.8625	799.8625
	Voice 25KHz	177-180	770.1125	800.1125
	Voice 25KHz	333-336	771.0875	801.0875
	Voice 25KHz	397-400	771.4875	801.4875
	Voice 25KHz	449-452	771.8125	801.8125
	Voice 25KHz	509-512	772.1875	802.1875
	Voice 25KHz	577-580	772.6125	802.6125
	Voice 25KHz	621-624	772.8875	802.8875
	Voice 25KHz	669-672	773.1875	803.1875
Elbert	Voice 25KHz	49-52	769.3125	799.3125
	Voice 25KHz	257-260	770.6125	800.6125
	Voice 25KHz	389-392	771.4375	801.4375
	Voice 25KHz	429-432	771.6875	801.6875
	Voice 25KHz	793-796	773.9625	803.9625
	Voice 25KHz	865-868	774.4125	804.4125
Emanuel	Voice 25KHz	169-172	770.0625	800.0625
	Voice 25KHz	213-216	770.3375	800.3375
	Voice 25KHz	329-332	771.0625	801.0625
	Voice 25KHz	437-440	771.7375	801.7375
	Voice 25KHz	505-508	772.1625	802.1625
	Voice 25KHz	573-576	772.5875	802.5875
	Voice 25KHz	625-628	772.9125	802.9125
	Voice 25KHz	869-872	774.4375	804.4375
Evans	Voice 25KHz	281-284	770.7625	800.7625
	Voice 25KHz	345-348	771.1625	801.1625
	Voice 25KHz	385-388	771.4125	801.4125
	Voice 25KHz	433-436	771.7125	801.7125
	Voice 25KHz	481-484	772.0125	802.0125
	Voice 25KHz	665-668	773.1625	803.1625

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
Fannin	Voice 25KHz	93-96	769.5875	799.5875
	Voice 25KHz	333-336	771.0875	801.0875
	Voice 25KHz	473-476	771.9625	801.9625
	Voice 25KHz	617-620	772.8625	802.8625
	Voice 25KHz	785-788	773.9125	803.9125
Fayette	Voice 25KHz	173-176	770.0875	800.0875
	Voice 25KHz	253-256	770.5875	800.5875
	Voice 25KHz	293-296	770.8375	800.8375
	Voice 25KHz	385-388	771.4125	801.4125
	Voice 25KHz	517-520	772.2375	802.2375
	Voice 25KHz	569-572	772.5625	802.5625
	Voice 25KHz	617-620	772.8625	802.8625
Floyd	Voice 25KHz	13-16	769.0875	799.0875
	Voice 25KHz	165-168	770.0375	800.0375
	Voice 25KHz	385-388	771.4125	801.4125
	Voice 25KHz	613-616	772.8375	802.8375
	Voice 25KHz	701-704	773.3875	803.3875
	Voice 25KHz	741-744	773.6375	803.6375
	Voice 25KHz	781-784	773.8875	803.8875
	Voice 25KHz	861-864	774.3875	804.3875
	Voice 25KHz	917-920	774.7375	804.7375
Forsyth	Voice 25KHz	241-244	770.5125	800.5125
	Voice 25KHz	505-508	772.1625	802.1625
	Voice 25KHz	569-572	772.5625	802.5625
	Voice 25KHz	713-716	773.4625	803.4625
	Voice 25KHz	793-796	773.9625	803.9625
	Voice 25KHz	865-868	774.4125	804.4125
Franklin	Voice 25KHz	57-60	769.3625	799.3625
	Voice 25KHz	329-332	771.0625	801.0625
	Voice 25KHz	557-560	772.4875	802.4875
	Voice 25KHz	617-620	772.8625	802.8625
	Voice 25KHz	665-668	773.1625	803.1625
	Voice 25KHz	909-912	774.6875	804.6875
Fulton	Voice 25KHz	41-44	769.2625	799.2625
	Voice 25KHz	81-84	769.5125	799.5125
	Voice 25KHz	121-124	769.7625	799.7625
	Voice 25KHz	161-164	770.0125	800.0125
	Voice 25KHz	205-208	770.2875	800.2875
	Voice 25KHz	281-284	770.7625	800.7625
	Voice 25KHz	345-348	771.1625	801.1625
	Voice 25KHz	393-396	771.4625	801.4625
	Voice 25KHz	437-440	771.7375	801.7375
	Voice 25KHz	477-480	771.9875	801.9875
	Voice 25KHz	561-564	772.5125	802.5125
	Voice 25KHz	629-632	772.9375	802.9375
	Voice 25KHz	669-672	773.1875	803.1875

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	757-760	773.7375	803.7375
	Voice 25KHz	833-836	774.2125	804.2125
	Voice 25KHz	905-908	774.6625	804.6625
	Voice 25KHz	945-948	774.9125	804.9125
Gilmer	Voice 25KHz	57-60	769.3625	799.3625
	Voice 25KHz	285-288	770.7875	800.7875
	Voice 25KHz	397-400	771.4875	801.4875
	Voice 25KHz	665-668	773.1625	803.1625
	Voice 25KHz	837-840	774.2375	804.2375
Glascocock	Voice 25KHz	13-16	769.0875	799.0875
	Voice 25KHz	81-84	769.5125	799.5125
	Voice 25KHz	381-384	771.3875	801.3875
	Voice 25KHz	457-460	771.8625	801.8625
	Voice 25KHz	533-536	772.3375	802.3375
	Voice 25KHz	601-604	772.7625	802.7625
	Voice 25KHz	865-868	774.4125	804.4125
Glynn	Voice 25KHz	81-84	769.5125	799.5125
	Voice 25KHz	121-124	769.7625	799.7625
	Voice 25KHz	161-164	770.0125	800.0125
	Voice 25KHz	201-204	770.2625	800.2625
	Voice 25KHz	241-244	770.5125	800.5125
	Voice 25KHz	281-284	770.7625	800.7625
	Voice 25KHz	337-340	771.1125	801.1125
	Voice 25KHz	385-388	771.4125	801.4125
	Voice 25KHz	429-432	771.6875	801.6875
	Voice 25KHz	469-472	771.9375	801.9375
	Voice 25KHz	529-532	772.3125	802.3125
	Voice 25KHz	569-572	772.5625	802.5625
	Voice 25KHz	629-632	772.9375	802.9375
	Voice 25KHz	673-676	773.2125	803.2125
	Voice 25KHz	713-716	773.4625	803.4625
	Voice 25KHz	753-756	773.7125	803.7125
	Voice 25KHz	829-832	774.1875	804.1875
	Voice 25KHz	909-912	774.6875	804.6875
Gordon	Voice 25KHz	137-140	769.8625	799.8625
	Voice 25KHz	177-180	770.1125	800.1125
	Voice 25KHz	441-444	771.7625	801.7625
	Voice 25KHz	525-528	772.2875	802.2875
	Voice 25KHz	573-576	772.5875	802.5875
Grady	Voice 25KHz	53-56	769.3375	799.3375
	Voice 25KHz	93-96	769.5875	799.5875
	Voice 25KHz	173-176	770.0875	800.0875
	Voice 25KHz	257-260	770.6125	800.6125
	Voice 25KHz	361-364	771.2625	801.2625
	Voice 25KHz	441-444	771.7625	801.7625
	Voice 25KHz	609-612	772.8125	802.8125

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
Greene	Voice 25KHz	825-828	774.1625	804.1625
	Voice 25KHz	161-164	770.0125	800.0125
	Voice 25KHz	325-328	771.0375	801.0375
	Voice 25KHz	425-428	771.6625	801.6625
	Voice 25KHz	473-476	771.9625	801.9625
Gwinnett	Voice 25KHz	537-540	772.3625	802.3625
	Voice 25KHz	717-720	773.4875	803.4875
	Voice 25KHz	97-100	769.6125	799.6125
	Voice 25KHz	137-140	769.8625	799.8625
	Voice 25KHz	297-300	770.8625	800.8625
	Voice 25KHz	361-364	771.2625	801.2625
	Voice 25KHz	401-404	771.5125	801.5125
	Voice 25KHz	445-448	771.7875	801.7875
	Voice 25KHz	485-488	772.0375	802.0375
	Voice 25KHz	529-532	772.3125	802.3125
	Voice 25KHz	593-596	772.7125	802.7125
	Voice 25KHz	661-664	773.1375	803.1375
	Voice 25KHz	705-708	773.4125	803.4125
	Voice 25KHz	749-752	773.6875	803.6875
	Voice 25KHz	825-828	774.1625	804.1625
Habersham	Voice 25KHz	85-88	769.5375	799.5375
	Voice 25KHz	249-252	770.5625	800.5625
	Voice 25KHz	337-340	771.1125	801.1125
	Voice 25KHz	461-464	771.8875	801.8875
	Voice 25KHz	577-580	772.6125	802.6125
	Voice 25KHz	789-792	773.9375	803.9375
Hall	Voice 25KHz	173-176	770.0875	800.0875
	Voice 25KHz	413-416	771.5875	801.5875
	Voice 25KHz	521-524	772.2625	802.2625
	Voice 25KHz	585-588	772.6625	802.6625
	Voice 25KHz	637-640	772.9875	802.9875
	Voice 25KHz	873-876	774.4625	804.4625
Hancock	Voice 25KHz	57-60	769.3625	799.3625
	Voice 25KHz	129-132	769.8125	799.8125
	Voice 25KHz	249-252	770.5625	800.5625
	Voice 25KHz	341-344	771.1375	801.1375
	Voice 25KHz	549-552	772.4375	802.4375
	Voice 25KHz	609-612	772.8125	802.8125
	Voice 25KHz	829-832	774.1875	804.1875
	Voice 25KHz	917-920	774.7375	804.7375
Haralson	Voice 25KHz	85-88	769.5375	799.5375
	Voice 25KHz	401-404	771.5125	801.5125
	Voice 25KHz	529-532	772.3125	802.3125
	Voice 25KHz	597-600	772.7375	802.7375
	Voice 25KHz	909-912	774.6875	804.6875
Harris	Voice 25KHz	53-56	769.3375	799.3375

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	329-332	771.0625	801.0625
	Voice 25KHz	405-408	771.5375	801.5375
	Voice 25KHz	529-532	772.3125	802.3125
	Voice 25KHz	677-680	773.2375	803.2375
	Voice 25KHz	789-792	773.9375	803.9375
Hart	Voice 25KHz	205-208	770.2875	800.2875
	Voice 25KHz	397-400	771.4875	801.4875
	Voice 25KHz	501-504	772.1375	802.1375
	Voice 25KHz	565-568	772.5375	802.5375
	Voice 25KHz	785-788	773.9125	803.9125
Heard	Voice 25KHz	325-328	771.0375	801.0375
	Voice 25KHz	409-412	771.5625	801.5625
	Voice 25KHz	565-568	772.5375	802.5375
	Voice 25KHz	613-616	772.8375	802.8375
	Voice 25KHz	837-840	774.2375	804.2375
Henry	Voice 25KHz	321-324	771.0125	801.0125
	Voice 25KHz	377-380	771.3625	801.3625
	Voice 25KHz	417-420	771.6125	801.6125
	Voice 25KHz	533-536	772.3375	802.3375
	Voice 25KHz	585-588	772.6625	802.6625
	Voice 25KHz	821-824	774.1375	804.1375
Houston	Voice 25KHz	13-16	769.0875	799.0875
	Voice 25KHz	57-60	769.3625	799.3625
	Voice 25KHz	129-132	769.8125	799.8125
	Voice 25KHz	205-208	770.2875	800.2875
	Voice 25KHz	253-256	770.5875	800.5875
	Voice 25KHz	333-336	771.0875	801.0875
	Voice 25KHz	409-412	771.5625	801.5625
	Voice 25KHz	469-472	771.9375	801.9375
	Voice 25KHz	525-528	772.2875	802.2875
	Voice 25KHz	577-580	772.6125	802.6125
	Voice 25KHz	633-636	772.9625	802.9625
	Voice 25KHz	677-680	773.2375	803.2375
	Voice 25KHz	745-748	773.6625	803.6625
	Voice 25KHz	789-792	773.9375	803.9375
	Voice 25KHz	837-840	774.2375	804.2375
	Voice 25KHz	877-880	774.4875	804.4875
	Voice 25KHz	917-920	774.7375	804.7375
Irwin	Voice 25KHz	173-176	770.0875	800.0875
	Voice 25KHz	333-336	771.0875	801.0875
	Voice 25KHz	449-452	771.8125	801.8125
	Voice 25KHz	541-544	772.3875	802.3875
	Voice 25KHz	665-668	773.1625	803.1625
Jackson	Voice 25KHz	89-92	769.5625	799.5625
	Voice 25KHz	341-344	771.1375	801.1375
	Voice 25KHz	457-460	771.8625	801.8625

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	609-612	772.8125	802.8125
	Voice 25KHz	741-744	773.6375	803.6375
	Voice 25KHz	861-864	774.3875	804.3875
Jasper	Voice 25KHz	85-88	769.5375	799.5375
	Voice 25KHz	337-340	771.1125	801.1125
	Voice 25KHz	541-544	772.3875	802.3875
	Voice 25KHz	597-600	772.7375	802.7375
	Voice 25KHz	713-716	773.4625	803.4625
Jeff Davis	Voice 25KHz	89-92	769.5625	799.5625
	Voice 25KHz	205-208	770.2875	800.2875
	Voice 25KHz	429-432	771.6875	801.6875
	Voice 25KHz	469-472	771.9375	801.9375
	Voice 25KHz	545-548	772.4125	802.4125
	Voice 25KHz	789-792	773.9375	803.9375
Jefferson	Voice 25KHz	201-204	770.2625	800.2625
	Voice 25KHz	397-400	771.4875	801.4875
	Voice 25KHz	445-448	771.7875	801.7875
	Voice 25KHz	557-560	772.4875	802.4875
	Voice 25KHz	665-668	773.1625	803.1625
	Voice 25KHz	749-752	773.6875	803.6875
	Voice 25KHz	821-824	774.1375	804.1375
	Voice 25KHz	945-948	774.9125	804.9125
Jenkins	Voice 25KHz	205-208	770.2875	800.2875
	Voice 25KHz	249-252	770.5625	800.5625
	Voice 25KHz	429-432	771.6875	801.6875
	Voice 25KHz	517-520	772.2375	802.2375
	Voice 25KHz	609-612	772.8125	802.8125
	Voice 25KHz	905-908	774.6625	804.6625
Johnson	Voice 25KHz	297-300	770.8625	800.8625
	Voice 25KHz	525-528	772.2875	802.2875
	Voice 25KHz	593-596	772.7125	802.7125
	Voice 25KHz	717-720	773.4875	803.4875
	Voice 25KHz	877-880	774.4875	804.4875
Jones	Voice 25KHz	53-56	769.3375	799.3375
	Voice 25KHz	369-372	771.3125	801.3125
	Voice 25KHz	413-416	771.5875	801.5875
	Voice 25KHz	477-480	771.9875	801.9875
	Voice 25KHz	529-532	772.3125	802.3125
	Voice 25KHz	581-584	772.6375	802.6375
	Voice 25KHz	661-664	773.1375	803.1375
	Voice 25KHz	833-836	774.2125	804.2125
Lamar	Voice 25KHz	133-136	769.8375	799.8375
	Voice 25KHz	325-328	771.0375	801.0375
	Voice 25KHz	461-464	771.8875	801.8875
	Voice 25KHz	609-612	772.8125	802.8125
	Voice 25KHz	709-712	773.4375	803.4375

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
Lanier	Voice 25KHz	329-332	771.0625	801.0625
	Voice 25KHz	413-416	771.5875	801.5875
	Voice 25KHz	457-460	771.8625	801.8625
	Voice 25KHz	521-524	772.2625	802.2625
	Voice 25KHz	569-572	772.5625	802.5625
	Voice 25KHz	609-612	772.8125	802.8125
	Voice 25KHz	861-864	774.3875	804.3875
	Voice 25KHz	909-912	774.6875	804.6875
Laurens	Voice 25KHz	93-96	769.5875	799.5875
	Voice 25KHz	161-164	770.0125	800.0125
	Voice 25KHz	245-248	770.5375	800.5375
	Voice 25KHz	289-292	770.8125	800.8125
	Voice 25KHz	345-348	771.1625	801.1625
	Voice 25KHz	393-396	771.4625	801.4625
	Voice 25KHz	461-464	771.8875	801.8875
	Voice 25KHz	553-556	772.4625	802.4625
	Voice 25KHz	605-608	772.7875	802.7875
	Voice 25KHz	673-676	773.2125	803.2125
	Voice 25KHz	741-744	773.6375	803.6375
	Voice 25KHz	785-788	773.9125	803.9125
	Voice 25KHz	825-828	774.1625	804.1625
	Lee	Voice 25KHz	89-92	769.5625
Voice 25KHz		169-172	770.0625	800.0625
Voice 25KHz		281-284	770.7625	800.7625
Voice 25KHz		325-328	771.0375	801.0375
Voice 25KHz		445-448	771.7875	801.7875
Voice 25KHz		521-524	772.2625	802.2625
Voice 25KHz		589-592	772.6875	802.6875
Voice 25KHz		629-632	772.9375	802.9375
Voice 25KHz		741-744	773.6375	803.6375
Voice 25KHz		913-916	774.7125	804.7125
Liberty	Voice 25KHz	93-96	769.5875	799.5875
	Voice 25KHz	133-136	769.8375	799.8375
	Voice 25KHz	173-176	770.0875	800.0875
	Voice 25KHz	217-220	770.3625	800.3625
	Voice 25KHz	297-300	770.8625	800.8625
	Voice 25KHz	353-356	771.2125	801.2125
	Voice 25KHz	401-404	771.5125	801.5125
	Voice 25KHz	457-460	771.8625	801.8625
	Voice 25KHz	497-500	772.1125	802.1125
	Voice 25KHz	541-544	772.3875	802.3875
	Voice 25KHz	597-600	772.7375	802.7375
	Voice 25KHz	701-704	773.3875	803.3875
	Voice 25KHz	741-744	773.6375	803.6375
	Voice 25KHz	781-784	773.8875	803.8875
	Voice 25KHz	837-840	774.2375	804.2375

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
Lincoln	Voice 25KHz	877-880	774.4875	804.4875
	Voice 25KHz	89-92	769.5625	799.5625
	Voice 25KHz	165-168	770.0375	800.0375
	Voice 25KHz	357-360	771.2375	801.2375
	Voice 25KHz	513-516	772.2125	802.2125
Long	Voice 25KHz	553-556	772.4625	802.4625
	Voice 25KHz	781-784	773.8875	803.8875
	Voice 25KHz	377-380	771.3625	801.3625
	Voice 25KHz	513-516	772.2125	802.2125
	Voice 25KHz	589-592	772.6875	802.6875
	Voice 25KHz	637-640	772.9875	802.9875
	Voice 25KHz	793-796	773.9625	803.9625
Lowndes	Voice 25KHz	49-52	769.3125	799.3125
	Voice 25KHz	89-92	769.5625	799.5625
	Voice 25KHz	129-132	769.8125	799.8125
	Voice 25KHz	169-172	770.0625	800.0625
	Voice 25KHz	281-284	770.7625	800.7625
	Voice 25KHz	349-352	771.1875	801.1875
	Voice 25KHz	389-392	771.4375	801.4375
	Voice 25KHz	433-436	771.7125	801.7125
	Voice 25KHz	473-476	771.9625	801.9625
	Voice 25KHz	549-552	772.4375	802.4375
	Voice 25KHz	589-592	772.6875	802.6875
	Voice 25KHz	661-664	773.1375	803.1375
	Voice 25KHz	709-712	773.4375	803.4375
	Voice 25KHz	749-752	773.6875	803.6875
	Voice 25KHz	789-792	773.9375	803.9375
	Voice 25KHz	829-832	774.1875	804.1875
	Lumpkin	Voice 25KHz	901-904	774.6375
Voice 25KHz		941-944	774.8875	804.8875
Voice 25KHz		125-128	769.7875	799.7875
Voice 25KHz		209-212	770.3125	800.3125
Voice 25KHz		449-452	771.8125	801.8125
Macon	Voice 25KHz	605-608	772.7875	802.7875
	Voice 25KHz	745-748	773.6625	803.6625
	Voice 25KHz	93-96	769.5875	799.5875
	Voice 25KHz	173-176	770.0875	800.0875
	Voice 25KHz	285-288	770.7875	800.7875
	Voice 25KHz	353-356	771.2125	801.2125
	Voice 25KHz	437-440	771.7375	801.7375
	Voice 25KHz	509-512	772.1875	802.1875
Madison	Voice 25KHz	617-620	772.8625	802.8625
	Voice 25KHz	781-784	773.8875	803.8875
	Voice 25KHz	121-124	769.7625	799.7625
	Voice 25KHz	281-284	770.7625	800.7625
	Voice 25KHz	477-480	771.9875	801.9875

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	601-604	772.7625	802.7625
	Voice 25KHz	833-836	774.2125	804.2125
	Voice 25KHz	945-948	774.9125	804.9125
Marion	Voice 25KHz	85-88	769.5375	799.5375
	Voice 25KHz	177-180	770.1125	800.1125
	Voice 25KHz	349-352	771.1875	801.1875
	Voice 25KHz	613-616	772.8375	802.8375
	Voice 25KHz	713-716	773.4625	803.4625
McDuffie	Voice 25KHz	121-124	769.7625	799.7625
	Voice 25KHz	253-256	770.5875	800.5875
	Voice 25KHz	293-296	770.8375	800.8375
	Voice 25KHz	409-412	771.5625	801.5625
	Voice 25KHz	481-484	772.0125	802.0125
	Voice 25KHz	613-616	772.8375	802.8375
	Voice 25KHz	741-744	773.6375	803.6375
McIntosh	Voice 25KHz	53-56	769.3375	799.3375
	Voice 25KHz	329-332	771.0625	801.0625
	Voice 25KHz	393-396	771.4625	801.4625
	Voice 25KHz	445-448	771.7875	801.7875
	Voice 25KHz	505-508	772.1625	802.1625
Meriwether	Voice 25KHz	137-140	769.8625	799.8625
	Voice 25KHz	341-344	771.1375	801.1375
	Voice 25KHz	465-468	771.9125	801.9125
	Voice 25KHz	581-584	772.6375	802.6375
	Voice 25KHz	901-904	774.6375	804.6375
	Voice 25KHz	941-944	774.8875	804.8875
Miller	Voice 25KHz	85-88	769.5375	799.5375
	Voice 25KHz	205-208	770.2875	800.2875
	Voice 25KHz	401-404	771.5125	801.5125
	Voice 25KHz	509-512	772.1875	802.1875
	Voice 25KHz	625-628	772.9125	802.9125
Mitchell	Voice 25KHz	45-48	769.2875	799.2875
	Voice 25KHz	329-332	771.0625	801.0625
	Voice 25KHz	369-372	771.3125	801.3125
	Voice 25KHz	425-428	771.6625	801.6625
	Voice 25KHz	489-492	772.0625	802.0625
	Voice 25KHz	601-604	772.7625	802.7625
	Voice 25KHz	705-708	773.4125	803.4125
	Voice 25KHz	873-876	774.4625	804.4625
Monroe	Voice 25KHz	97-100	769.6125	799.6125
	Voice 25KHz	213-216	770.3375	800.3375
	Voice 25KHz	381-384	771.3875	801.3875
	Voice 25KHz	445-448	771.7875	801.7875
	Voice 25KHz	521-524	772.2625	802.2625
	Voice 25KHz	685-688	773.2875	803.2875
Montgomery	Voice 25KHz	13-16	769.0875	799.0875

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	125-128	769.7875	799.7875
	Voice 25KHz	253-256	770.5875	800.5875
	Voice 25KHz	405-408	771.5375	801.5375
	Voice 25KHz	613-616	772.8375	802.8375
Morgan	Voice 25KHz	253-256	770.5875	800.5875
	Voice 25KHz	373-376	771.3375	801.3375
	Voice 25KHz	449-452	771.8125	801.8125
	Voice 25KHz	589-592	772.6875	802.6875
	Voice 25KHz	785-788	773.9125	803.9125
	Voice 25KHz	913-916	774.7125	804.7125
Murray	Voice 25KHz	129-132	769.8125	799.8125
	Voice 25KHz	249-252	770.5625	800.5625
	Voice 25KHz	341-344	771.1375	801.1375
	Voice 25KHz	457-460	771.8625	801.8625
	Voice 25KHz	609-612	772.8125	802.8125
Muscogee	Voice 25KHz	45-48	769.2875	799.2875
	Voice 25KHz	121-124	769.7625	799.7625
	Voice 25KHz	161-164	770.0125	800.0125
	Voice 25KHz	201-204	770.2625	800.2625
	Voice 25KHz	241-244	770.5125	800.5125
	Voice 25KHz	281-284	770.7625	800.7625
	Voice 25KHz	365-368	771.2875	801.2875
	Voice 25KHz	417-420	771.6125	801.6125
	Voice 25KHz	469-472	771.9375	801.9375
	Voice 25KHz	513-516	772.2125	802.2125
	Voice 25KHz	589-592	772.6875	802.6875
	Voice 25KHz	629-632	772.9375	802.9375
	Voice 25KHz	701-704	773.3875	803.3875
	Voice 25KHz	757-760	773.7375	803.7375
	Voice 25KHz	797-800	773.9875	803.9875
	Voice 25KHz	837-840	774.2375	804.2375
	Voice 25KHz	877-880	774.4875	804.4875
	Voice 25KHz	917-920	774.7375	804.7375
Newton	Voice 25KHz	125-128	769.7875	799.7875
	Voice 25KHz	209-212	770.3125	800.3125
	Voice 25KHz	285-288	770.7875	800.7875
	Voice 25KHz	389-392	771.4375	801.4375
	Voice 25KHz	513-516	772.2125	802.2125
	Voice 25KHz	605-608	772.7875	802.7875
	Voice 25KHz	673-676	773.2125	803.2125
	Voice 25KHz	837-840	774.2375	804.2375
Oconee	Voice 25KHz	133-136	769.8375	799.8375
	Voice 25KHz	213-216	770.3375	800.3375
	Voice 25KHz	349-352	771.1875	801.1875
	Voice 25KHz	441-444	771.7625	801.7625
	Voice 25KHz	481-484	772.0125	802.0125

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	869-872	774.4375	804.4375
Oglethorpe	Voice 25KHz	41-44	769.2625	799.2625
	Voice 25KHz	333-336	771.0875	801.0875
	Voice 25KHz	377-380	771.3625	801.3625
	Voice 25KHz	417-420	771.6125	801.6125
	Voice 25KHz	669-672	773.1875	803.1875
	Voice 25KHz	905-908	774.6625	804.6625
Paulding	Voice 25KHz	133-136	769.8375	799.8375
	Voice 25KHz	365-368	771.2875	801.2875
	Voice 25KHz	425-428	771.6625	801.6625
	Voice 25KHz	521-524	772.2625	802.2625
	Voice 25KHz	637-640	772.9875	802.9875
	Voice 25KHz	709-712	773.4375	803.4375
Peach	Voice 25KHz	321-324	771.0125	801.0125
	Voice 25KHz	365-368	771.2875	801.2875
	Voice 25KHz	417-420	771.6125	801.6125
	Voice 25KHz	485-488	772.0375	802.0375
	Voice 25KHz	537-540	772.3625	802.3625
	Voice 25KHz	585-588	772.6625	802.6625
	Voice 25KHz	665-668	773.1625	803.1625
	Voice 25KHz	821-824	774.1375	804.1375
Pickens	Voice 25KHz	293-296	770.8375	800.8375
	Voice 25KHz	353-356	771.2125	801.2125
	Voice 25KHz	417-420	771.6125	801.6125
	Voice 25KHz	589-592	772.6875	802.6875
	Voice 25KHz	829-832	774.1875	804.1875
Pierce	Voice 25KHz	85-88	769.5375	799.5375
	Voice 25KHz	373-376	771.3375	801.3375
	Voice 25KHz	433-436	771.7125	801.7125
	Voice 25KHz	473-476	771.9625	801.9625
	Voice 25KHz	593-596	772.7125	802.7125
	Voice 25KHz	749-752	773.6875	803.6875
	Voice 25KHz	869-872	774.4375	804.4375
Pike	Voice 25KHz	401-404	771.5125	801.5125
	Voice 25KHz	441-444	771.7625	801.7625
	Voice 25KHz	489-492	772.0625	802.0625
	Voice 25KHz	637-640	772.9875	802.9875
	Voice 25KHz	785-788	773.9125	803.9125
Polk	Voice 25KHz	209-212	770.3125	800.3125
	Voice 25KHz	377-380	771.3625	801.3625
	Voice 25KHz	497-500	772.1125	802.1125
	Voice 25KHz	557-560	772.4875	802.4875
	Voice 25KHz	605-608	772.7875	802.7875
Pulaski	Voice 25KHz	97-100	769.6125	799.6125
	Voice 25KHz	137-140	769.8625	799.8625
	Voice 25KHz	349-352	771.1875	801.1875

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	513-516	772.2125	802.2125
	Voice 25KHz	593-596	772.7125	802.7125
	Voice 25KHz	669-672	773.1875	803.1875
	Voice 25KHz	901-904	774.6375	804.6375
Putnam	Voice 25KHz	93-96	769.5875	799.5875
	Voice 25KHz	173-176	770.0875	800.0875
	Voice 25KHz	393-396	771.4625	801.4625
	Voice 25KHz	437-440	771.7375	801.7375
	Voice 25KHz	561-564	772.5125	802.5125
	Voice 25KHz	629-632	772.9375	802.9375
	Voice 25KHz	873-876	774.4625	804.4625
Quitman	Voice 25KHz	137-140	769.8625	799.8625
	Voice 25KHz	285-288	770.7875	800.7875
	Voice 25KHz	505-508	772.1625	802.1625
	Voice 25KHz	621-624	772.8875	802.8875
	Voice 25KHz	909-912	774.6875	804.6875
Rabun	Voice 25KHz	53-56	769.3375	799.3375
	Voice 25KHz	357-360	771.2375	801.2375
	Voice 25KHz	533-536	772.3375	802.3375
	Voice 25KHz	613-616	772.8375	802.8375
	Voice 25KHz	913-916	774.7125	804.7125
Randolph	Voice 25KHz	49-52	769.3125	799.3125
	Voice 25KHz	321-324	771.0125	801.0125
	Voice 25KHz	461-464	771.8875	801.8875
	Voice 25KHz	529-532	772.3125	802.3125
	Voice 25KHz	585-588	772.6625	802.6625
	Voice 25KHz	869-872	774.4375	804.4375
Richmond	Voice 25KHz	49-52	769.3125	799.3125
	Voice 25KHz	93-96	769.5875	799.5875
	Voice 25KHz	161-164	770.0125	800.0125
	Voice 25KHz	321-324	771.0125	801.0125
	Voice 25KHz	361-364	771.2625	801.2625
	Voice 25KHz	425-428	771.6625	801.6625
	Voice 25KHz	469-472	771.9375	801.9375
	Voice 25KHz	521-524	772.2625	802.2625
	Voice 25KHz	565-568	772.5375	802.5375
	Voice 25KHz	621-624	772.8875	802.8875
	Voice 25KHz	673-676	773.2125	803.2125
	Voice 25KHz	713-716	773.4625	803.4625
	Voice 25KHz	793-796	773.9625	803.9625
	Voice 25KHz	833-836	774.2125	804.2125
	Voice 25KHz	873-876	774.4625	804.4625
	Voice 25KHz	913-916	774.7125	804.7125
Rockdale	Voice 25KHz	165-168	770.0375	800.0375
	Voice 25KHz	217-220	770.3625	800.3625
	Voice 25KHz	493-496	772.0875	802.0875

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	557-560	772.4875	802.4875
	Voice 25KHz	625-628	772.9125	802.9125
	Voice 25KHz	909-912	774.6875	804.6875
Schley	Voice 25KHz	17-20	769.1125	799.1125
	Voice 25KHz	389-392	771.4375	801.4375
	Voice 25KHz	453-456	771.8375	801.8375
	Voice 25KHz	501-504	772.1375	802.1375
	Voice 25KHz	673-676	773.2125	803.2125
Screven	Voice 25KHz	97-100	769.6125	799.6125
	Voice 25KHz	289-292	770.8125	800.8125
	Voice 25KHz	349-352	771.1875	801.1875
	Voice 25KHz	389-392	771.4375	801.4375
	Voice 25KHz	441-444	771.7625	801.7625
	Voice 25KHz	569-572	772.5625	802.5625
	Voice 25KHz	829-832	774.1875	804.1875
Seminole	Voice 25KHz	333-336	771.0875	801.0875
	Voice 25KHz	373-376	771.3375	801.3375
	Voice 25KHz	421-424	771.6375	801.6375
	Voice 25KHz	485-488	772.0375	802.0375
	Voice 25KHz	537-540	772.3625	802.3625
	Voice 25KHz	577-580	772.6125	802.6125
Spalding	Voice 25KHz	45-48	769.2875	799.2875
	Voice 25KHz	89-92	769.5625	799.5625
	Voice 25KHz	201-204	770.2625	800.2625
	Voice 25KHz	349-352	771.1875	801.1875
	Voice 25KHz	433-436	771.7125	801.7125
	Voice 25KHz	473-476	771.9625	801.9625
	Voice 25KHz	665-668	773.1625	803.1625
	Voice 25KHz	753-756	773.7125	803.7125
	Voice 25KHz	829-832	774.1875	804.1875
Stephens	Voice 25KHz	129-132	769.8125	799.8125
	Voice 25KHz	177-180	770.1125	800.1125
	Voice 25KHz	369-372	771.3125	801.3125
	Voice 25KHz	421-424	771.6375	801.6375
	Voice 25KHz	469-472	771.9375	801.9375
	Voice 25KHz	509-512	772.1875	802.1875
	Voice 25KHz	941-944	774.8875	804.8875
Stewart	Voice 25KHz	97-100	769.6125	799.6125
	Voice 25KHz	205-208	770.2875	800.2875
	Voice 25KHz	369-372	771.3125	801.3125
	Voice 25KHz	537-540	772.3625	802.3625
	Voice 25KHz	793-796	773.9625	803.9625
	Voice 25KHz	833-836	774.2125	804.2125
Sumter	Voice 25KHz	133-136	769.8375	799.8375
	Voice 25KHz	245-248	770.5375	800.5375
	Voice 25KHz	341-344	771.1375	801.1375

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	429-432	771.6875	801.6875
	Voice 25KHz	473-476	771.9625	801.9625
	Voice 25KHz	581-584	772.6375	802.6375
	Voice 25KHz	661-664	773.1375	803.1375
	Voice 25KHz	825-828	774.1625	804.1625
	Voice 25KHz	865-868	774.4125	804.4125
	Voice 25KHz	905-908	774.6625	804.6625
	Voice 25KHz	945-948	774.9125	804.9125
Talbot	Voice 25KHz	217-220	770.3625	800.3625
	Voice 25KHz	393-396	771.4625	801.4625
	Voice 25KHz	449-452	771.8125	801.8125
	Voice 25KHz	541-544	772.3875	802.3875
	Voice 25KHz	669-672	773.1875	803.1875
Taliaferro	Voice 25KHz	97-100	769.6125	799.6125
	Voice 25KHz	169-172	770.0625	800.0625
	Voice 25KHz	353-356	771.2125	801.2125
	Voice 25KHz	569-572	772.5625	802.5625
	Voice 25KHz	789-792	773.9375	803.9375
Tattnall	Voice 25KHz	57-60	769.3625	799.3625
	Voice 25KHz	425-428	771.6625	801.6625
	Voice 25KHz	521-524	772.2625	802.2625
	Voice 25KHz	561-564	772.5125	802.5125
	Voice 25KHz	617-620	772.8625	802.8625
	Voice 25KHz	677-680	773.2375	803.2375
	Voice 25KHz	901-904	774.6375	804.6375
	Voice 25KHz	941-944	774.8875	804.8875
Taylor	Voice 25KHz	373-376	771.3375	801.3375
	Voice 25KHz	517-520	772.2375	802.2375
	Voice 25KHz	573-576	772.5875	802.5875
	Voice 25KHz	861-864	774.3875	804.3875
	Voice 25KHz	909-912	774.6875	804.6875
Telfair	Voice 25KHz	49-52	769.3125	799.3125
	Voice 25KHz	281-284	770.7625	800.7625
	Voice 25KHz	357-360	771.2375	801.2375
	Voice 25KHz	445-448	771.7875	801.7875
	Voice 25KHz	537-540	772.3625	802.3625
	Voice 25KHz	589-592	772.6875	802.6875
Terrell	Voice 25KHz	57-60	769.3625	799.3625
	Voice 25KHz	217-220	770.3625	800.3625
	Voice 25KHz	493-496	772.0875	802.0875
	Voice 25KHz	565-568	772.5375	802.5375
	Voice 25KHz	605-608	772.7875	802.7875
	Voice 25KHz	669-672	773.1875	803.1875
	Voice 25KHz	709-712	773.4375	803.4375
	Voice 25KHz	749-752	773.6875	803.6875
Thomas	Voice 25KHz	17-20	769.1125	799.1125

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	125-128	769.7875	799.7875
	Voice 25KHz	165-168	770.0375	800.0375
	Voice 25KHz	209-212	770.3125	800.3125
	Voice 25KHz	345-348	771.1625	801.1625
	Voice 25KHz	397-400	771.4875	801.4875
	Voice 25KHz	461-464	771.8875	801.8875
	Voice 25KHz	545-548	772.4125	802.4125
	Voice 25KHz	585-588	772.6625	802.6625
	Voice 25KHz	665-668	773.1625	803.1625
	Voice 25KHz	745-748	773.6625	803.6625
	Voice 25KHz	833-836	774.2125	804.2125
Tift	Voice 25KHz	41-44	769.2625	799.2625
	Voice 25KHz	85-88	769.5375	799.5375
	Voice 25KHz	285-288	770.7875	800.7875
	Voice 25KHz	365-368	771.2875	801.2875
	Voice 25KHz	437-440	771.7375	801.7375
	Voice 25KHz	505-508	772.1625	802.1625
	Voice 25KHz	565-568	772.5375	802.5375
	Voice 25KHz	605-608	772.7875	802.7875
	Voice 25KHz	713-716	773.4625	803.4625
	Voice 25KHz	785-788	773.9125	803.9125
	Voice 25KHz	837-840	774.2375	804.2375
Toombs	Voice 25KHz	293-296	770.8375	800.8375
	Voice 25KHz	341-344	771.1375	801.1375
	Voice 25KHz	381-384	771.3875	801.3875
	Voice 25KHz	477-480	771.9875	801.9875
	Voice 25KHz	529-532	772.3125	802.3125
	Voice 25KHz	581-584	772.6375	802.6375
	Voice 25KHz	661-664	773.1375	803.1375
	Voice 25KHz	705-708	773.4125	803.4125
	Voice 25KHz	757-760	773.7375	803.7375
	Voice 25KHz	909-912	774.6875	804.6875
Towns	Voice 25KHz	217-220	770.3625	800.3625
	Voice 25KHz	365-368	771.2875	801.2875
	Voice 25KHz	517-520	772.2375	802.2375
	Voice 25KHz	597-600	772.7375	802.7375
	Voice 25KHz	717-720	773.4875	803.4875
Treutlen	Voice 25KHz	53-56	769.3375	799.3375
	Voice 25KHz	353-356	771.2125	801.2125
	Voice 25KHz	453-456	771.8375	801.8375
	Voice 25KHz	497-500	772.1125	802.1125
	Voice 25KHz	541-544	772.3875	802.3875
	Voice 25KHz	837-840	774.2375	804.2375
	Voice 25KHz	917-920	774.7375	804.7375
Troup	Voice 25KHz	13-16	769.0875	799.0875
	Voice 25KHz	97-100	769.6125	799.6125

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	165-168	770.0375	800.0375
	Voice 25KHz	209-212	770.3125	800.3125
	Voice 25KHz	285-288	770.7875	800.7875
	Voice 25KHz	369-372	771.3125	801.3125
	Voice 25KHz	429-432	771.6875	801.6875
	Voice 25KHz	485-488	772.0375	802.0375
	Voice 25KHz	537-540	772.3625	802.3625
	Voice 25KHz	625-628	772.9125	802.9125
	Voice 25KHz	705-708	773.4125	803.4125
Turner	Voice 25KHz	321-324	771.0125	801.0125
	Voice 25KHz	405-408	771.5375	801.5375
	Voice 25KHz	457-460	771.8625	801.8625
	Voice 25KHz	529-532	772.3125	802.3125
	Voice 25KHz	909-912	774.6875	804.6875
Twiggs	Voice 25KHz	177-180	770.1125	800.1125
	Voice 25KHz	377-380	771.3625	801.3625
	Voice 25KHz	449-452	771.8125	801.8125
	Voice 25KHz	501-504	772.1375	802.1375
	Voice 25KHz	613-616	772.8375	802.8375
Union	Voice 25KHz	201-204	770.2625	800.2625
	Voice 25KHz	321-324	771.0125	801.0125
	Voice 25KHz	373-376	771.3375	801.3375
	Voice 25KHz	425-428	771.6625	801.6625
	Voice 25KHz	545-548	772.4125	802.4125
Upson	Voice 25KHz	169-172	770.0625	800.0625
	Voice 25KHz	249-252	770.5625	800.5625
	Voice 25KHz	289-292	770.8125	800.8125
	Voice 25KHz	361-364	771.2625	801.2625
	Voice 25KHz	425-428	771.6625	801.6625
	Voice 25KHz	593-596	772.7125	802.7125
	Voice 25KHz	749-752	773.6875	803.6875
	Voice 25KHz	869-872	774.4375	804.4375
Walker	Voice 25KHz	121-124	769.7625	799.7625
	Voice 25KHz	217-220	770.3625	800.3625
	Voice 25KHz	281-284	770.7625	800.7625
	Voice 25KHz	393-396	771.4625	801.4625
	Voice 25KHz	485-488	772.0375	802.0375
	Voice 25KHz	593-596	772.7125	802.7125
	Voice 25KHz	833-836	774.2125	804.2125
Walton	Voice 25KHz	421-424	771.6375	801.6375
	Voice 25KHz	565-568	772.5375	802.5375
	Voice 25KHz	633-636	772.9625	802.9625
	Voice 25KHz	901-904	774.6375	804.6375
	Voice 25KHz	941-944	774.8875	804.8875
Ware	Voice 25KHz	53-56	769.3375	799.3375
	Voice 25KHz	93-96	769.5875	799.5875

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
	Voice 25KHz	133-136	769.8375	799.8375
	Voice 25KHz	177-180	770.1125	800.1125
	Voice 25KHz	285-288	770.7875	800.7875
	Voice 25KHz	345-348	771.1625	801.1625
	Voice 25KHz	409-412	771.5625	801.5625
	Voice 25KHz	525-528	772.2875	802.2875
	Voice 25KHz	565-568	772.5375	802.5375
	Voice 25KHz	605-608	772.7875	802.7875
	Voice 25KHz	793-796	773.9625	803.9625
	Voice 25KHz	833-836	774.2125	804.2125
	Voice 25KHz	913-916	774.7125	804.7125
Warren	Voice 25KHz	241-244	770.5125	800.5125
	Voice 25KHz	433-436	771.7125	801.7125
	Voice 25KHz	501-504	772.1375	802.1375
	Voice 25KHz	577-580	772.6125	802.6125
	Voice 25KHz	701-704	773.3875	803.3875
Washington	Voice 25KHz	45-48	769.2875	799.2875
	Voice 25KHz	281-284	770.7625	800.7625
	Voice 25KHz	365-368	771.2875	801.2875
	Voice 25KHz	421-424	771.6375	801.6375
	Voice 25KHz	489-492	772.0625	802.0625
	Voice 25KHz	617-620	772.8625	802.8625
	Voice 25KHz	709-712	773.4375	803.4375
	Voice 25KHz	901-904	774.6375	804.6375
Wayne	Voice 25KHz	97-100	769.6125	799.6125
	Voice 25KHz	137-140	769.8625	799.8625
	Voice 25KHz	209-212	770.3125	800.3125
	Voice 25KHz	249-252	770.5625	800.5625
	Voice 25KHz	289-292	770.8125	800.8125
	Voice 25KHz	365-368	771.2875	801.2875
	Voice 25KHz	413-416	771.5875	801.5875
	Voice 25KHz	461-464	771.8875	801.8875
	Voice 25KHz	549-552	772.4375	802.4375
	Voice 25KHz	609-612	772.8125	802.8125
	Voice 25KHz	785-788	773.9125	803.9125
	Voice 25KHz	917-920	774.7375	804.7375
Webster	Voice 25KHz	401-404	771.5125	801.5125
	Voice 25KHz	441-444	771.7625	801.7625
	Voice 25KHz	545-548	772.4125	802.4125
	Voice 25KHz	625-628	772.9125	802.9125
	Voice 25KHz	785-788	773.9125	803.9125
Wheeler	Voice 25KHz	417-420	771.6125	801.6125
	Voice 25KHz	509-512	772.1875	802.1875
	Voice 25KHz	597-600	772.7375	802.7375
	Voice 25KHz	797-800	773.9875	803.9875
	Voice 25KHz	861-864	774.3875	804.3875

Region 10, Public Safety 700 MHz Communications Plan

County	Band Width	Channel	Base Frequency (MHz)	Mobile Frequency (MHz)
White	Voice 25KHz	433-436	771.7125	801.7125
	Voice 25KHz	553-556	772.4625	802.4625
	Voice 25KHz	625-628	772.9125	802.9125
	Voice 25KHz	709-712	773.4375	803.4375
	Voice 25KHz	797-800	773.9875	803.9875
Whitfield	Voice 25KHz	81-84	769.5125	799.5125
	Voice 25KHz	297-300	770.8625	800.8625
	Voice 25KHz	405-408	771.5375	801.5375
	Voice 25KHz	493-496	772.0875	802.0875
	Voice 25KHz	585-588	772.6625	802.6625
	Voice 25KHz	625-628	772.9125	802.9125
	Voice 25KHz	749-752	773.6875	803.6875
	Voice 25KHz	797-800	773.9875	803.9875
	Voice 25KHz	873-876	774.4625	804.4625
	Wilcox	Voice 25KHz	209-212	770.3125
Voice 25KHz		373-376	771.3375	801.3375
Voice 25KHz		413-416	771.5875	801.5875
Voice 25KHz		489-492	772.0625	802.0625
Voice 25KHz		873-876	774.4625	804.4625
Wilkes	Voice 25KHz	209-212	770.3125	800.3125
	Voice 25KHz	369-372	771.3125	801.3125
	Voice 25KHz	461-464	771.8875	801.8875
	Voice 25KHz	625-628	772.9125	802.9125
	Voice 25KHz	837-840	774.2375	804.2375
	Voice 25KHz	877-880	774.4875	804.4875
Wilkinson	Voice 25KHz	17-20	769.1125	799.1125
	Voice 25KHz	385-388	771.4125	801.4125
	Voice 25KHz	429-432	771.6875	801.6875
	Voice 25KHz	517-520	772.2375	802.2375
	Voice 25KHz	565-568	772.5375	802.5375
Worth	Voice 25KHz	213-216	770.3375	800.3375
	Voice 25KHz	377-380	771.3625	801.3625
	Voice 25KHz	417-420	771.6125	801.6125
	Voice 25KHz	481-484	772.0125	802.0125
	Voice 25KHz	553-556	772.4625	802.4625
	Voice 25KHz	621-624	772.8875	802.8875
	Voice 25KHz	753-756	773.7125	803.7125
	Voice 25KHz	793-796	773.9625	803.9625

Appendix H

Inter-Regional Dispute Resolution Agreement

INTER-REGIONAL DISPUTE RESOLUTION AGREEMENT

INTRODUCTION

This is a mutually agreed upon Inter-Regional Coordination Procedures Agreement and Dispute Resolution Agreement between the respective 700 MHz Regional Planning Committees of Region 1 – Alabama; Region 9 – Florida; Region 10 – Georgia; Region 31 – North Carolina; Region 37 – Region 37 – South Carolina; and Region 39 – Tennessee which will be used by the Regions to coordinate with the adjacent Regional Planning Committees.

INTER-REGIONAL COORDINATION PROCEDURES AGREEMENT

The coordination procedure will consist of the following steps:

1. 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.
2. Applications by eligible entities are accepted.
3. An application-filing window (if this procedure is being used) is closed after appropriate time interval.
4. Intra-Regional review and coordination takes place, including a technical review resulting in assignment of channels.
5. 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.
6. The adjacent Region reviews the application. If the application is approved, a letter of concurrent shall be sent, via the CAPRAD database, to the initiating Regional chairperson within thirty (30) calendar days.
7. Where adjacent Region concurrence has been secured, and the channel assignment would result in no change to the Region's Commission approval 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 Commission.

¹ If an applicant's proposed service area extends into an adjacent Public Safety Region(s), the affected Region(s) must approve the application. Service area shall normally be defined as the area included within the geographical boundary of the applicant, plus three (3) miles. Other definitions of service area shall be justified with an accompanying *Memorandum of Understanding (MOU)* or other application documentation between agencies, i.e. mutual aid agreements.

8. Where adjacent Region concurrence has been secured, and the channel assignment matrix, then the initiating Region shall file with 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).
9. 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 Commission.

DISPUTE RESOLUTION

The procedure will consist of the following steps should a dispute occur:

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 ten (10) calendar days via e-mail. If the applying Region cannot modify the application to satisfy the objections of the adjacent Region then, a working group comprised of representative 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 e-mail, mail or fax. Findings may include, but not limited to:
 - a. Unconditional concurrence;
 - b. Conditional concurrence contingent upon modification of Applicant's technical parameters; or
 - c. Partial or total denial of proposed frequencies due to inability to meet co-channel/adjacent channel interference free protection to existing licenses with the adjacent Region.
2. If the Inter-Regional Working Group cannot resolve the dispute, then the matter shall be forwarded for evaluation to the National Plan Oversight Committee (NPOC), of the National Public Safety Telecommunications Council (NPSTC). 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 NPOC will, within thirty (30) calendar days, report its recommendation(s) to the Regional chairpersons via the CAPRAD database. The NPOC's decision may support either of the disputing Regions or it may develop a proposal that it deems advantageous to each disputing Region.

CONCLUSION

IN AGREEMENT HERETO, Regions 1, 9, 10, 31, 37 and 39 hereunto set their signatures the day and year first above written.

Respectfully,
[all signatories to agreement]

Jim Mollohan
Chairman, Region 10 Georgia

John Johnson
Chairman, Region 39 Tennessee

Eric Linsley
Chairman, Region 1 Alabama

William Winn
Chairman, Region 37 South Carolina

Ray Carlson
Chairman, Region 9 Florida

Michael T. Hodgson
Chairman, Region 31 North Carolina

See Attachments for Signatures

Appendix I

DTV Protection and Incumbency Conclusion

Region 10 – Georgia
TV Stations

[Search FCC Database](#)

[TV Code Glossary](#)

County	Channel	Call Sign	Location	Latitude NAD83	Longitude NAD83
Bibb County	64	WGNM	Macon	32°45'51"N	83°33'32"W
Catoosa County	63	WRNG-LP	Ringgold	34°55'30"N	85°5'50"W
Early County	69	W69DO	Colquitt	31°14'35"N	84°44'55"W
Fulton County	69	WUPA	Atlanta	33°45'34"N	84°23'19"W
Muscogee County	62	W62DG	Columbus	32°25'58"N	84°57'2"W
Rockdale County	63	920228KE	Monroe	33°44'38"N	84°0'39"W
Rockdale County	63	WHSG-TV	Monroe	33°44'22"N	84°0'14"W
Tift County	62	W62DE	Tifton	31°26'34"N	83°30'27"W
Washington County	68	940415DL	Sandersville	32°58'23"N	82°48'34"W
Whitfield County	66	DW66BA	Dalton	34°47'21"N	84°58'11"W

Region 10, Public Safety 700 MHz Communications Plan

INCUMBENT FULL POWER TV LICENSEES ON CHANNELS 59-69 (SE AREA)															
As of 12/1/99															
CALL SIGN	CH	TYPE	CITY	ST	LICENSEE/PERMITEE	ERP (KW)	HAAT (MTR)	LOCATION OF FACILITY							
								LAT			LONG				
WJEB	59	LIC	JACKSONVILLE	FL	JACKSONVILLE EDUCATORS B/CING., INC.	3310	289	N	30	16	34	W	81	33	53
WTJP	60	LIC	GADSDEN	AL	ALL AMERICAN NETWORK	5000	352	N	33	48	53	W	86	26	55
WFGC	61	CP MOD	PALM BEACH	FL	CHRISTIAN TV OF PALM BEACH CTY, INC.	5000	125	N	26	45	47	W	80	12	19
WLXI	61	LIC	GREENSBORO	NC	RADIANT LIFE MINISTRIES, INC.	501	168	N	36	8	58	W	80	3	21
WDSI	61	LIC	CHATTANOOGA	TN	WDSI LICENSE CORP.	4900	370	N	35	12	34	W	85	16	39
WBSV	62	LIC	VENICE	FL	ENTRAVISION HOLDINGS, LLC	4680	167	N	27	6	1	W	82	22	18
WASV	62	LIC	ASHEVILLE	NC	PAPPAS TELECASTING OF THE CAROLINAS	5000	556	N	35	13	20	W	82	32	58
WFPX	62	LIC	FAYETTEVILLE	NC	PAXSON COMMUNICATIONS LIC. CO., LLC	933	256	N	34	53	5	W	79	4	31
WPPB	63	CP MOD	BOCA RATON	FL	PALMETTO B/CASTERS ASSOC. FOR COMM.	646	159	N	26	9	11	W	80	10	12
WHSB	63	LIC	MONROE	GA	TRINITY BROADCASTING NETWORK	5000	363	N	33	44	22	W	84	0	14
WQHB	63	LIC	SUMTER	SC	MCLAUGHLIN BROADCASTING, INC.	13.2	165	N	33	54	52	W	80	17	38
WGNM	64	LIC	MACON	GA	GOOD NEWS TELEVISION	51.3	185	N	32	44	58	W	83	33	35
WAXN	64	LIC	KANNAPOLIS	NC	KANNAPOLIS TELEVISION COMPANY	1910	300	N	35	15	41	W	80	43	38
WRBW	65	LIC	ORLANDO	FL	UTV OF ORLANDO, INC.	5000	465	N	28	34	51	W	81	4	32
WSWS	66	LIC	OPELIKA	AL	PAPPAS TELECASTING OF OPELIKA	794	207	N	32	38	33	W	85	14	13
WXPX	66	LIC	BRADENTON	FL	PAXSON COMMUNICATIONS LIC. CO., LLC	2240	465	N	27	24	30	W	82	15	0
WJFB	66	LIC	LEBANON	TN	BRYANT COMMUNICATIONS, INC.	2240	161	N	36	9	13	W	86	22	46
WRJM	67	CP MOD	TROY	AL	STAGE DOOR DEVELOPMENT, INC.	1260	592	N	31	58	32	W	86	9	46
WPXP	67	LIC	LAKE WORTH	FL	HISPANIC BROADCASTING, INC.	3980	128	N	26	45	47	W	80	12	19
WABM	68	LIC	BIRMINGHAM	AL	BIRMINGHAM (WABM-TV) LICENSEE, INC.	1450	314	N	33	27	37	W	86	51	7
WBCC	68	LIC	COCOA	FL	BREVARD COMMUNITY COLLEGE	2820	287	N	28	18	26	W	80	54	48
WAMI	69	LIC	HOLLYWOOD	FL	UNIVISION PARTNERSHIP OF HOLLYWOOD, FL	5000	264	N	25	57	59	W	80	12	33
WUPA	69	LIC	ATLANTA	GA	VSC COMMUNICATIONS, INC	2630	299	N	33	45	34	W	84	23	19

Frequency Availability through the DTV Transition

On August 14, 1996, the FCC released a Sixth Further Notice of Proposed Rule Making in the digital television (DTV) proceeding. A portion of the spectrum recovered from TV channels 60-69 when DTV is fully deployed "could be used to meet public safety needs."⁵ By Congressional direction in the Balanced Budget Act of 1997, the FCC reallocated 24 MHz of spectrum to Public Safety services in the 764-776 MHz and 794-806 MHz bands. The statute required the FCC to establish service rules, by September 30, 1998, in order to start the process of assigning licenses. The rules that the FCC established by September 30, 1998, "provided the minimum technical framework necessary to standardize operations in this spectrum band, including, but not limited to: (a) establishing interference limits at the boundaries of the spectrum block and service areas; (b) establishing technical restrictions necessary to protect full-service analog and digital television service during the transition to digital television services; (c) permitting public safety licensees the flexibility to aggregate multiple licenses to create larger spectrum blocks and service areas, and to disaggregate or partition licenses to create smaller spectrum blocks or service areas; and (d) ensuring that the new spectrum will not be subject to harmful interference from television broadcast licensees"⁶.

In April 1997, the FCC assigned a second 6 MHz block of spectrum to each license (or permit to construct) holders of full power, analog, television broadcast station (NTSC) in order to construct a digital television station (DTV). Secondary low power television stations (LPTV), secondary translators and boosters (TX), mutually exclusive applications for new stations, and application filed after a cut-off date did not receive a second 6 MHz allotment for DTV. The FCC established about a 10 year timeline for those stations with a DTV assignment to construct a DTV station, cease NTSC transmissions, and return one of the two 6 MHz blocks of spectrum to the FCC. Target date for the end of analog television (NTSC) transmission was set for December 31, 2006.

Congress provided several market penetration loopholes (>85% households served, all 4 major networks converted, etc) allowing NTSC operations to continue past the December 31, 2006 date. While there are over 100 NTSC full power stations in this band, there are also about 12 DTV assignments. The DTV assignments might continue operations past the December 31, 2006 date for two

⁵ Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service, MM Docket No. 87-268, *Sixth Further Notice of Proposed Rule Making*, 11 FCC Rcd 10,968, 10,980 (1996) (*DTV Sixth Notice*).

⁶ FCC 98-191, 1st R&O and 3rd NPRM on WT Docket No. 96-86 Operational & Technical Requirements of the 700 MHz Public Safety Band, para.4.

reasons. 1) They must find a suitable channel below channel 60 to move to, which may be their own NTSC assignment. They may not be able to find another allocation until other NTSC stations have ceased operations and returned a channel below 60 to the FCC. Or, 2) their license does not expire until after 2006 (most are licensed into 2007 or 2008).

Protection of Public Safety from future TV/DTV Stations

Public safety base and mobile operations must have a safe distance between the co-channel or adjacent TV and DTV systems. This typically means that a co-channel and adjacent channel base and mobile system cannot operate in areas where TV stations already exist. The public safety systems that will operate in the 700 MHz band for some locations in the U.S. and its possessions must wait until the transition period is over and the TV/DTV stations have moved to other channels before beginning operations. In other areas, channels will be available for public safety operations. During the transition period, public safety stations must be acutely aware of the TV allocations for both TV and DTV stations. The FCC wants the number of situations where the public safety licensee has to coordinate its station with the existing TV stations kept to a minimum. The Commission's decisions in the reallocation of spectrum to DTV implemented two requirements which will help public safety systems to protect TV/DTV stations and reduce the number of coordinations. The first requirement is that full power UHF-TV stations can no longer apply for channels 60-69 or modifications in channels 60-69 which would increase the stations' service areas, which creates a known environment for public safety licensees.⁷ The second requirement is that since only existing TV station licensees can apply for DTV channels, the applicants and their proposed locations are already known.⁸

⁷ See *Reallocation Report and Order*, 12 FCC Rcd 22,969-22,970. Stations with existing channel 60-69 TV construction permits must complete their stations and file for a license by January 2, 2001.

⁸ See *DTV Sixth Report and Order*, 12 FCC Rcd 14,739-14,754; See also *In the Matter of Advanced Television Systems and Their Impact upon the Existing Television Broadcast Service, Memorandum Opinion and Order on Reconsideration of the Sixth Report and Order* in MM Docket No. 87-268, 13 FCC Rcd 7418 (1998). The 11 DTV allotments are:

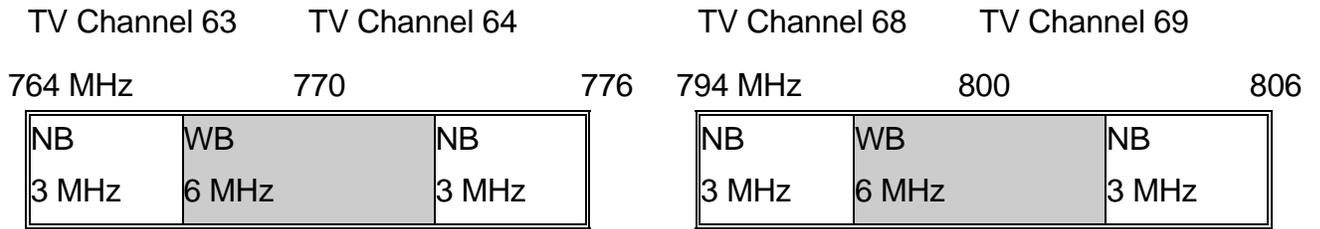
Also, the low power TV stations and translators already on channels 60-69 are secondary and must cease operations if they cause harmful interference when a primary service, like land mobile, comes into operation. The secondary Low Power TV stations already on channels 60-69 cannot apply for the new Class A protection status.

STATE	CITY	NTSC TV Ch.	DTV Ch.	ERP (kW)	HAAT (m)
California	Stockton	64	62	63.5	874
California	Los Angeles	11	65	688.7	896
California	Riverside	62	68	180.1	723
California	Concord	42	63	61.0	856
Pennsylvania	Allentown	39	62	50.0	302
Pennsylvania	Philadelphia	6	64	1000.0	332
Pennsylvania	Philadelphia	10	67	791.8	354
Puerto Rico	Aguada	50	62	50.0	343
Puerto Rico	Mayaguez	16	63	50.0	347
Puerto Rico	Naranjito	64	65	50.0	142
Puerto Rico	Aguadilla	12	69	691.8	665

Spectrum Overview

700 MHz Public Safety Band - 24 megahertz of spectrum

TV 61	TV 62	TV 63	TV 64	TV 65	TV 66	TV 67	TV 68	TV 69	806-824 LMR Band
		Public Safety 6 MHz	Public Safety 6 MHz				Public Safety 6 MHz	Public Safety 6 MHz	



NB = narrowband channels

WB = wideband channels

The FCC designated 764-776 MHz (TV Channels 63 and 64) for base-to-mobile transmissions and 794-806 MHz (TV Channels 68 and 69) for mobile-to-base communications. In addition, base transmit channels in TV Channel 63 are paired with mobile channels in TV Channel 68 and likewise that base channels in TV Channel 64 are paired with mobile channels in TV Channel 69. This provides 30 MHz separation between base and mobile transmit channel center frequencies. This band plan was suggested because of the close proximity of TV Channels 68 and 69 to the 806-824 MHz band, which already contains the transmit channels for mobile and portable radios (base receive).

Mobile transmissions are allowed on any part of the 700 MHz band, not just the upper 12 MHz. This will facilitate direct mobile-to-mobile communications (*i.e.*, not through a repeater) that are often employed at the site of an incident, where wide area communications facilities are not available or desired. Allowing mobile transmissions on both halves of a paired channel is generally consistent with FCC rules governing use of other public safety bands.

Non-uniform TV Channel Pairing

There are currently geographical areas where, either licensed or otherwise protected full-service analog or new digital, television stations are currently authorized to operate on TV Channels 62, 63, 64, 65, 67, 68, and 69.⁹ During the DTV transition period, an incumbent TV station occupying one or more of the four Public Safety channels (63, 64, 68, 69) or the three adjacent channels (62, 65, 67) may preclude pairing of the channels in accordance with the band plan defined above. Therefore, to provide for cases where standard pairing is not practicable during the DTV transition period, the FCC will allow the RPCs to consider pairing base-to-mobile channels in TV Channel 63 with mobile-to-base channels in TV Channel 69 and/or base-to-mobile channels in TV Channel 64 with mobile-to-base channels in TV Channel 68. Because such non-standard channel pairing may cause problems when the band becomes more fully occupied, the FCC expects the RPCs to permit such non-standard channel pairing only when absolutely necessary, and the FCC may require stations to return to standard channel pairing after the DTV transition period is over. However, the FCC will not permit non-standard channel pairing on the nationwide interoperability channels in the 700 MHz band because of the need for nationwide uniformity of these channels.

At least three issues must be considered before deciding upon non-uniform channel pairing:

1) Preliminary analysis, looking at current incumbent TV stations, shows few geographic areas where non-uniform pairing allows early implementation of 700 MHz systems. As DTV Transition progresses, and TV stations vacate the band, this situation might change.

2) If interoperability channels must be uniform, operation on I/O channels will be blocked until all incumbent TV stations are cleared, even though General Use channels may be implemented earlier.

3) If I/O channels must follow uniform pairing, and general use & reserve channels can be implemented using non-uniform pairing, narrowband voice subscriber equipment must operate on 3 different channel pairings - 39 MHz (764-767 paired with 803-806 MHz), 30 MHz, and 21 MHz (773-776 paired with 794-797 MHz). Likewise, there will be 3 different channel pairing for wideband channels. No vendors have volunteered to build equipment & systems for non-uniform pairing, yet.

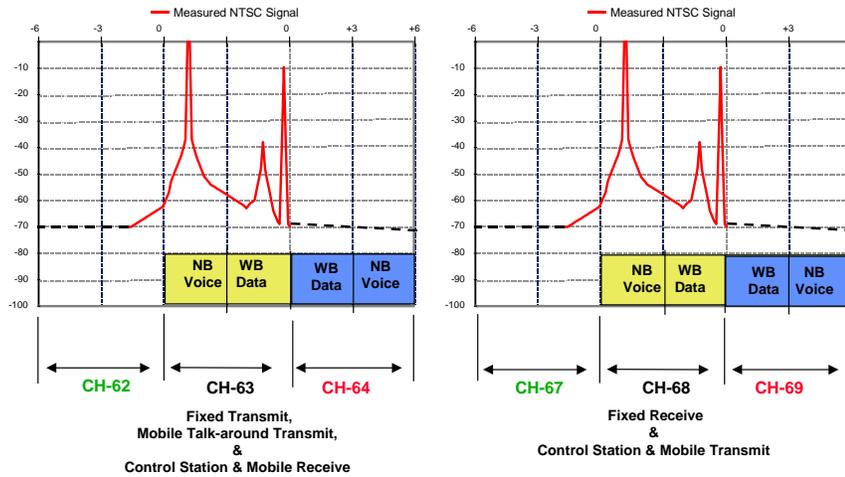
TV/DTV Protection

⁹ See *Reallocation, Notice of Proposed Rule Making*, 12 FCC Rcd at 14,141, 14,177-78 and 14,182-83.

During the DTV Transition period, public safety must consider all co-channel and adjacent channel TV and DTV stations within about a 160 mile radius.

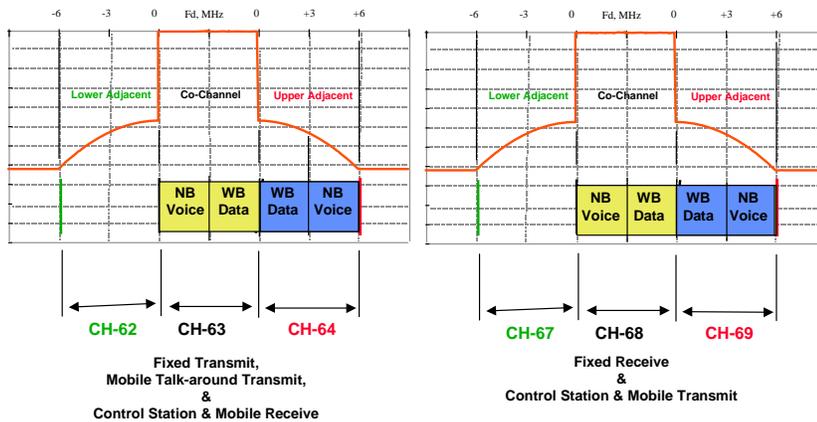
For public safety channel pair 63/68, public safety must consider six TV/DTV channels - co-channels 63 and 68, as well as, adjacent channels 62, 64, 67, and 69.

**Measured (off-the-air) Analog TV Signal
vs
700 MHz Public Safety Assignments**



**HAVE 2 CO-CHANNEL AND 4 ADJACENT CHANNELS
TO CONSIDER FOR EACH 700 MHz PAIRED BLOCKS OF SPECTRUM**

**DTV Emission Mask
vs
700 MHz Public Safety Assignments**



**HAVE 2 CO-CHANNEL AND 4 ADJACENT CHANNELS
TO CONSIDER FOR EACH 700 MHz PAIRED BLOCKS OF SPECTRUM**

For public safety channel pair 64/69, public safety must consider five TV/DTV channels; co-channels 64 and 69, as well as, adjacent channels 63, 65, and 68.

It may only takes one TV/DTV station to block operations on one, the other, or both public safety channel pairs. For a public safety system at 500 watts ERP and 500 ft HAAT, co-channel TV stations can block a 120 mile radius and adjacent channel TV/DTV stations can block a 90 mile radius.

Since base stations transmitters are located only on channels 63 and 64, LMR mobile only TV/DTV protection spacing on channels 68 and 69 may be shorter than LMR base TV/DTV protection on channels 63 & 64.

TV/DTV Protection Criteria

Public safety applicants can select one of three ways to meet the TV/DTV protection requirements:

- (1) utilize the geographic separation specified in the 40 dB Tables of 90.309;
- (2) submit an engineering study to justify other separations which the Commission approves; or
- (3) obtain concurrence from the applicable TV/DTV station(s).

90.309 40 dB D/U Tables

The FCC adopted a 40 dB desired (TV/DTV) to undesired (LMR) signal ratio for co-channel operations and a 0 dB desired/undesired (D/U) signal ratio for adjacent channel operations. The D/U ratio is used to determine the geographic separation needed between public safety base stations and the Grade B service contours of co-channel and adjacent channel TV/DTV stations.¹⁰ The D/U signal ratio is used to determine the level of land mobile signals that can be permitted at protected fringe area TV receiver locations without degrading the TV picture to less than a defined picture quality. In other words, the D/U signal ratio indicates what relative levels of TV and land mobile signals can be tolerated without causing excessive interference to TV reception at the fringe of the TV service area.

Desired and undesired contours are not quite the same thing. Desired analog TV contours are defined as F(50,50), meaning coverage is 50% of the places and 50% of the time. Undesired land mobile or interference contours are defined as F(50,10). For Digital TV, the desired contours are defined as F(50,90), while the undesired land mobile contour are still F(50,10).

¹⁰ See *Second Notice*, 12 FCC Rcd 17,803.

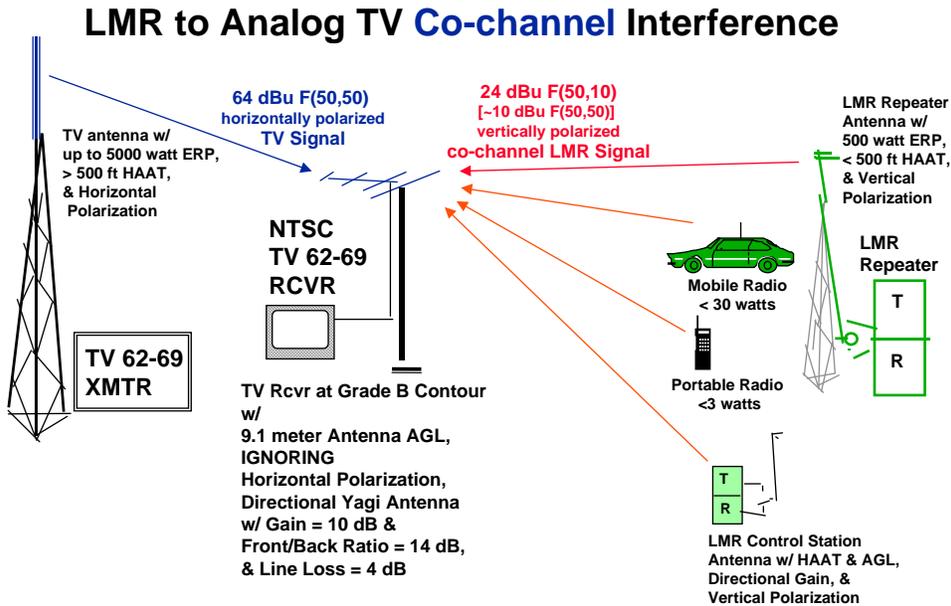
Land mobile and analog TV services have successfully shared the 470-512 MHz band (TV Channels 14-20) within a 50 mile radius of eleven major cities since the early 1970's based upon providing a signal ratio of at least 50 dB¹¹ between the desired TV signal and undesired co-channel land mobile signal (D/U signal ratio) at a hypothetical 88.5 km (55 mi) Grade B service contour and an adjacent channel D/U signal ratio of 0 dB at the same hypothetical Grade B service contour. These separation distances also protected the land mobile systems from interference from the TV stations. In 1985, recognizing that 50 dB D/U was too conservative, the FCC proposed to expand land mobile/TV sharing to other TV channels and proposed that the geographic separation requirements for co-channel operations be based on a D/U signal ratio of 40 dB rather than 50 dB.¹² That proceeding was put on hold pending completion of the DTV proceeding, which has now been completed. In the 470-512 MHz band, the FCC also relied on minimum separation distances based on the various heights and powers of the land mobile stations (HAAT/ERP separation tables) to prevent harmful interference.

Since this simple, yet conservative, method was successful, the FCC decided to use this same method, the 90.309 HAAT/ERP Separation Tables, to administer LMR to TV/DTV receiver protection criteria for the services in the 700 MHz band.

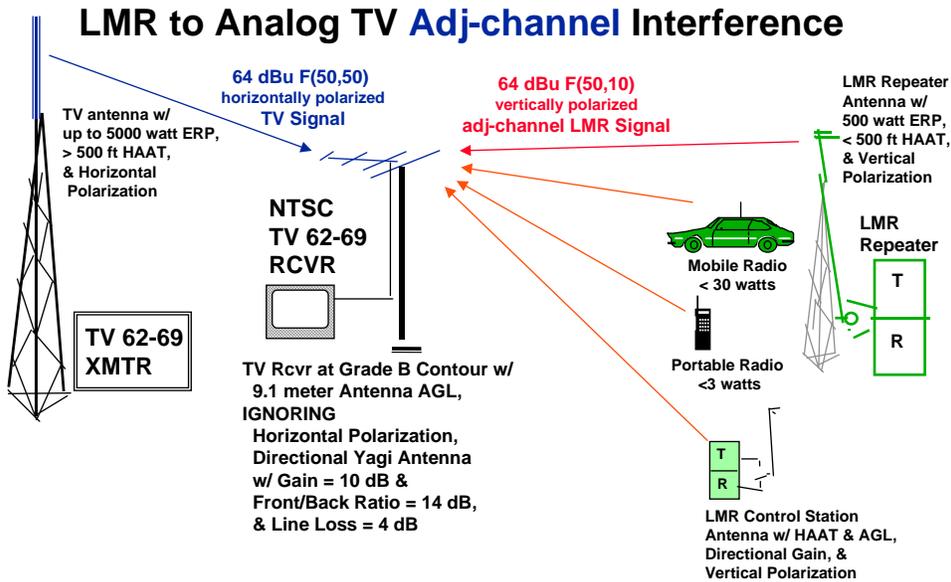
¹¹ For TV Channel 15 in New York City, a 40 dB D/U signal ratio is used. *See* 47 C.F.R. §§ 90.307(b) and 90.309 (Table B). A 50 dB protection ratio means that the amplitude of the desired TV signal is more than 300 times greater than the amplitude of the undesired signal at the Grade B service contour. A 40 dB protection ratio means the desired TV signal is 100 times greater.

¹² *See* Amendment of the Rules Concerning Further Sharing of the UHF Television Band by Private Land Mobile Radio Services, GEN Docket No. 85-172, *Notice of Proposed Rulemaking*, 101 FCC 2d 852, 861 (1985) (*UHF-TV Sharing NPRM*).

Co-channel land mobile base station transmitters are limited to a maximum signal strength at the hypothetical TV Grade B contour 40 dB D/U below desired 64 dBu F(50,50) analog TV signal level, or 24 dBu F(50,10).¹³ The FCC adopted a 0 dB D/U signal ratio for adjacent channel operations. Adjacent channel land mobile transmitters will be limited to a maximum signal of 64 dBu F(50,10) which is 0 dB D/U below the TV Grade B signal of 64 dBu F(50,50) at the TV station Grade B contour of 88.5 km (55 miles). A typical TV receiver's adjacent channel rejection is at least 10-20 dB greater than this level which will further safeguards TV receivers from land mobile interference.



¹³ In terms of miles, if everything else is the same, a 40 dB D/U ratio rather than a 50 dB D/U ratio allows base stations to be located approximately 48.3 km (30 mi) closer to a co-channel TV station. See 47 C.F.R. § 90.309, Tables A & B.



The equivalent ratios for a DTV station's 41 dB F(50,90) desired field strength contour are land mobile 17 dB F(50,10) contour for co-channel and land mobile - 23 dB F(50,10) contour for adjacent channel.

The Tables to protect TV/DTV stations are found in Section 90.309 of the Commission's rules. These existing Tables cover co-channel protection based on a 40 dB D/U ratio using the separation methods described in Section 73.611 of the Commission's rules for base, control, and mobile stations, and for adjacent channel stations for base stations based on a 0 dB D/U ratio.

However, the original considerations in 470-512 MHz band under Section 90.309 were different in that mobiles were limited in their roaming distance from the base station (less than 30 miles) and mobiles were on the same TV channel as the base station.

Control and mobile stations (including portables) are limited in height (200 ft for control stations, 20 ft for mobiles/portables) and power (200 watts ERP for control stations, 30 watts for mobiles, 3 watts for portables). Mobiles and control stations shall afford protection to co-channel and adjacent channel TV/DTV stations in accordance with the values specified in Table D (co-channel frequencies based on 40 dB protection for TV and 17 dB for DTV) in § 90.309.

Control stations and mobiles/portables shall keep a minimum distance of 8 kilometers (5 miles) from all adjacent channel TV/DTV station hypothetical or equivalent Grade B contours (adjacent channel frequencies based on 0 dB protection for TV and -23 dB for DTV). This means that control and mobile stations

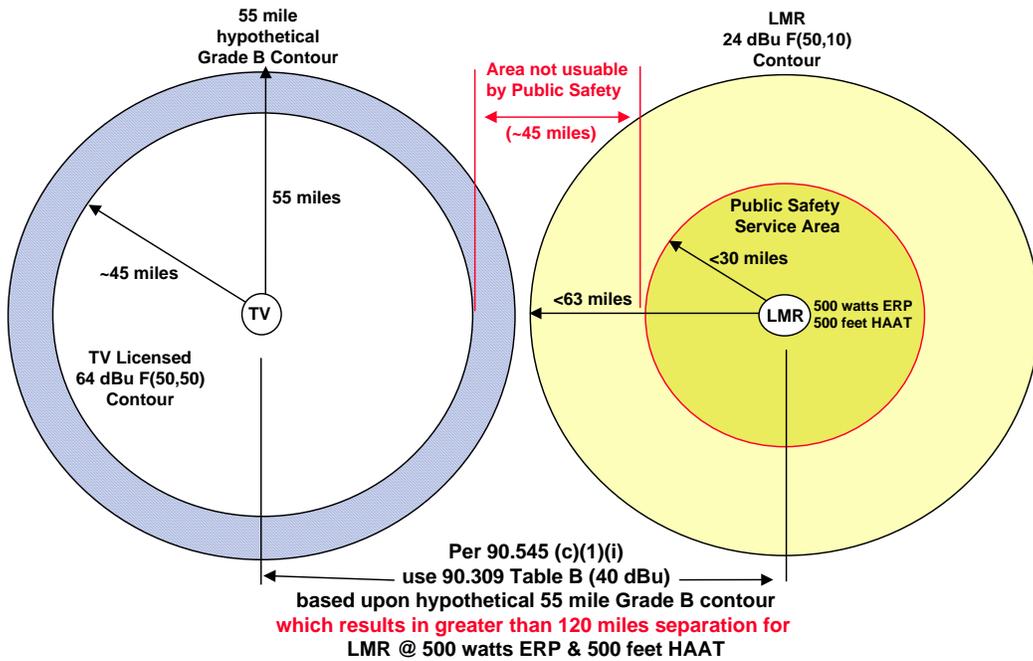
shall keep a minimum distance of 96.5 kilometers (60 miles) from all adjacent channel TV/DTV stations.

Since operators of mobiles and portables are able to move and communicate with each other, licensees or coordinators must determine the areas where the mobiles can and cannot roam in order to protect the TV/DTV stations, and advise the mobile operators of these areas and their restrictions.

Engineering Analysis

Limiting TV/land mobile separation to distances specified in the 40 dB HAAT/ERP Separation Tables found in 90.309 may prevent public safety entities from fully utilizing this spectrum in a number of major metropolitan areas until after the DTV transition period ends. Public safety applicants will be allowed to submit engineering studies showing how they propose to meet the appropriate D/U signal ratio at the existing TV station's authorized or applied for Grade B service contour or equivalent contour for DTV stations instead of the hypothetical contour at 88.5 km.

700 MHz Band - LMR to Co-Channel TV Spacing using 40 dBu Table



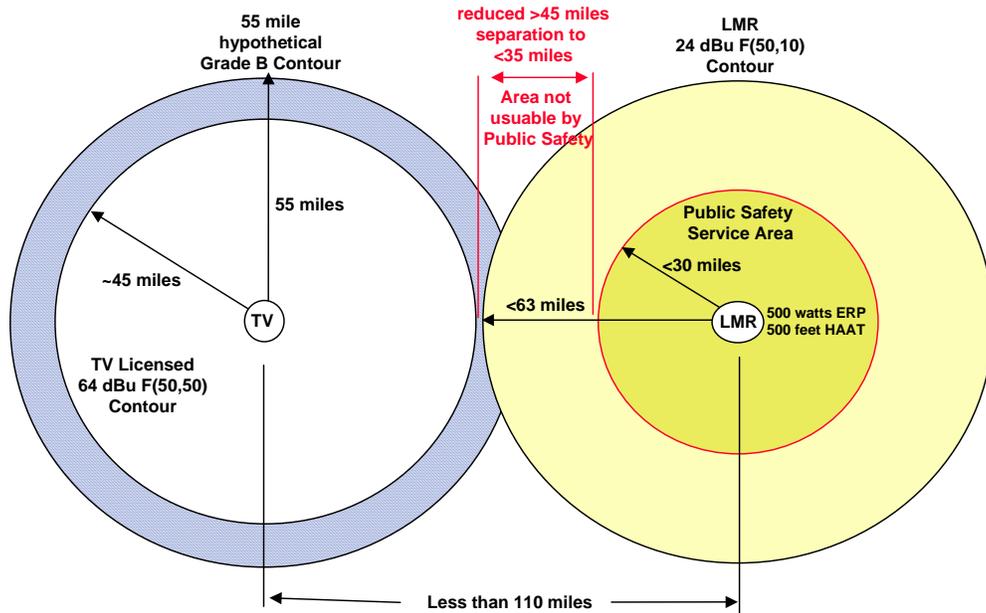
Many Channel 60-69 TV stations do not have 55 mile radius Grade B contours. Average calculated for NE corridor is less than 45 miles.

This would permit public safety applicants to take into account intervening terrain and engineering techniques such as directional and down-tilt antennas in determining the necessary separation to provide the required protection. Public

safety applicants who use the engineering techniques must consider the actual TV/DTV parameters and not base their study on the 88.5 km hypothetical or equivalent Grade B contour. If land mobile interference contour does not overlap the TV Grade B contour (or DTV equivalent), then engineering analysis may be submitted to the FCC with the application.

**700 MHz Band - Public Safety to Co-Channel TV Spacing
using Engineering Analysis per 90.545(c)(1)(ii)**

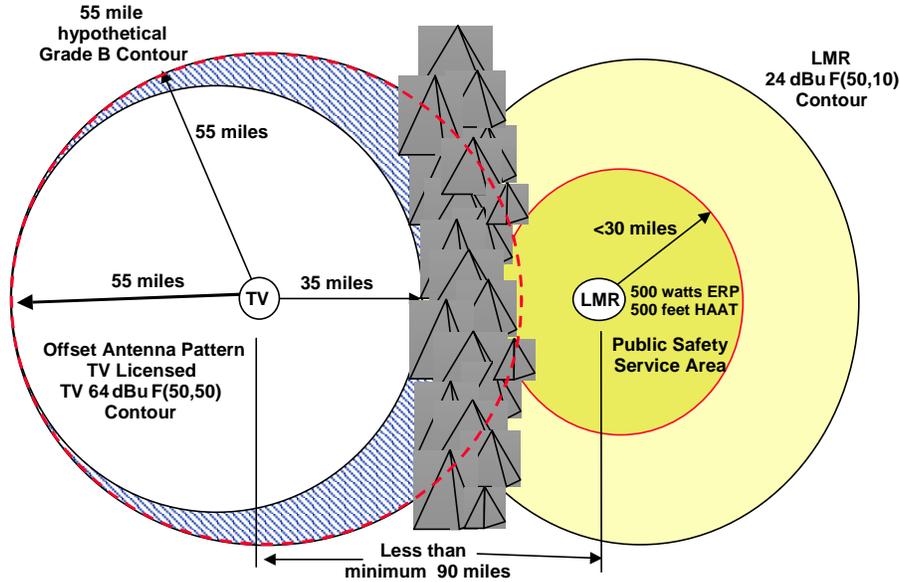
Actual LMR 24 dBu contour just touches Licensed TV/DTV 64 dBu contour



This method is most useful with lower power TV stations whose Grade B contours are much smaller than the hypothetical 55 mile (88.5 km) Grade B contour or have directional patterns.

700 MHz Band - Public Safety to Co-Channel TV Spacing using Engineering Analysis per 90.545(c)(1)(ii)

Actual LMR 24 dBu contour just touches Actual TV/DTV 64dBu contour



Ability to consider the effects of terrain may greatly reduce the separation required between LMR and TV.

Note that 200 ft AGL limitations on 700 MHz control stations is much higher than the 100 ft AGL limitation used at UHF. Limiting control station antenna height and/or ERP may greatly reduce land mobile to TV contour spacing.

Also, note that analysis for TV/DTV receivers uses 30 ft (10 m) antenna height whereas, analysis for land mobile subscribers uses about a 6 ft (2m) antenna height.

TV/DTV Short-spacing

Public safety applicants will also be allowed to "short-space" even closer if they get the (written) approval of the TV stations they are required to protect. Public safety applicants need to determine the station's intended market area vs its hypothetical Grade B contour area. Alternately, the TV/DTV station may be short-spaced against another TV/DTV station, limiting their area of operation, but does not affect LMR operations.

Instead of each agency negotiating with a TV/DTV station individually, they may want to combine into a single group or committee and negotiate together.

TV/DTV Height Adjustment Factor

In order to protect certain TV/DTV stations which have extremely large contours due to unusual height situations, such as a television station mounted on top of Mount Wilson near Los Angeles, California, the FCC incorporated an additional height adjustment factor which must be used by all public safety base, control and mobile stations to protect these few TV/DTV stations and afford the land mobile stations the necessary protection from the TV/DTV stations. The equation necessary to calculate the additional distance from the hypothetical or equivalent Grade B contour is found in the rules section 90.545(c)(2)(iii).

CANADIAN AND MEXICAN BORDER REGIONS

The FCC typically takes one of two approaches. They either postpone licensing of land mobile stations within a certain geographic distance (e.g., 120 km (75 miles)) of Canada and Mexico, or permit interim authorizations conditioned on the outcome of future agreements. Because international negotiations can take many months or even years to finalize, the FCC took the later approach and adopted certain interim requirements for public safety licenses along the Canada and Mexico borders, providing that the licenses are subject to whatever future agreements the United States develops with the two countries.

Nevertheless, existing mutual agreements with Canada and Mexico for the use of these bands for UHF television must be recognized until further negotiations are completed. The US negotiated an agreement with Mexico of DTV operations near the US/Mexican border in July 1998. The US just negotiated an agreement with Mexico of DTV operations, and limited non-broadcast operations on 746-806 MHz, near the US/Canadian border in September 2000. Existing agreements recognize existing TV and/or DTV allotments and planning factors within a specified distance of the border. The Canadian Letter of Understanding also acknowledges that US plans to use 746-806 MHz for non-broadcast purposes and provides planning criteria (40 dB D/U) to protect Canadian TV/DTV receivers.

Additionally, public safety facilities within the United States must accept interference from authorized channel 60-69 TV transmitters in Canada and Mexico in accordance with the existing agreements. Since the locations of the Canadian and Mexican analog TV assignments and DTV allotments are known, the public safety applicants can consider the levels of harmful interference to expect from Canadian and Mexican TV/DTV stations when applying for a license. Both Canada and Mexico have been informally notified that the Commission has changed its allocated use of TV channels 60-69, and the Commission will discuss the possibility of mutually compatible spectrum use with Canada and Mexico.

Appendix J

700MHz Band Plan

700 MHz BAND PLAN per Second R&O in PS Docket 06-229

960 Narrowband Base Channels (6.25 kHz each, aggregate to 25 kHz)

769 MHz

401	321	241	161	81	1
402	322	242	162	82	2
403	323	243	163	83	3
404	324	244	164	84	4
405	325	245	165	85	5
406	326	246	166	86	6
407	327	247	167	87	7
408	328	248	168	88	8
409	329	249	169	89	9
410	330	250	170	90	10
411	331	251	171	91	11
412	332	252	172	92	12
413	333	253	173	93	13
414	334	254	174	94	14
415	335	255	175	95	15
416	336	256	176	96	16
417	337	257	177	97	17
418	338	258	178	98	18
419	339	259	179	99	19
420	340	260	180	100	20
421	341	261	181	101	21
422	342	262	182	102	22
423	343	263	183	103	23
424	344	264	184	104	24
425	345	265	185	105	25
426	346	266	186	106	26
427	347	267	187	107	27
428	348	268	188	108	28
429	349	269	189	109	29
430	350	270	190	110	30
431	351	271	191	111	31
432	352	272	192	112	32
433	353	273	193	113	33
434	354	274	194	114	34
435	355	275	195	115	35
436	356	276	196	116	36
437	357	277	197	117	37
438	358	278	198	118	38
439	359	279	199	119	39
440	360	280	200	120	40
441	361	281	201	121	41
442	362	282	202	122	42
443	363	283	203	123	43
444	364	284	204	124	44
445	365	285	205	125	45
446	366	286	206	126	46
447	367	287	207	127	47
448	368	288	208	128	48
449	369	289	209	129	49
450	370	290	210	130	50
451	371	291	211	131	51
452	372	292	212	132	52
453	373	293	213	133	53
454	374	294	214	134	54
455	375	295	215	135	55
456	376	296	216	136	56
457	377	297	217	137	57
458	378	298	218	138	58
459	379	299	219	139	59
460	380	300	220	140	60
461	381	301	221	141	61
462	382	302	222	142	62
463	383	303	223	143	63
464	384	304	224	144	64
465	385	305	225	145	65
466	386	306	226	146	66
467	387	307	227	147	67
468	388	308	228	148	68
469	389	309	229	149	69
470	390	310	230	150	70
471	391	311	231	151	71
472	392	312	232	152	72
473	393	313	233	153	73
474	394	314	234	154	74
475	395	315	235	155	75
476	396	316	236	156	76
477	397	317	237	157	77
478	398	318	238	158	78
479	399	319	239	159	79
480	400	320	240	160	80

772 MHz

772 MHz

881	801	721	641	561	481
882	802	722	642	562	482
883	803	723	643	563	483
884	804	724	644	564	484
885	805	725	645	565	485
886	806	726	646	566	486
887	807	727	647	567	487
888	808	728	648	568	488
889	809	729	649	569	489
890	810	730	650	570	490
891	811	731	651	571	491
892	812	732	652	572	492
893	813	733	653	573	493
894	814	734	654	574	494
895	815	735	655	575	495
896	816	736	656	576	496
897	817	737	657	577	497
898	818	738	658	578	498
899	819	739	659	579	499
900	820	740	660	580	500
901	821	741	661	581	501
902	822	742	662	582	502
903	823	743	663	583	503
904	824	744	664	584	504
905	825	745	665	585	505
906	826	746	666	586	506
907	827	747	667	587	507
908	828	748	668	588	508
909	829	749	669	589	509
910	830	750	670	590	510
911	831	751	671	591	511
912	832	752	672	592	512
913	833	753	673	593	513
914	834	754	674	594	514
915	835	755	675	595	515
916	836	756	676	596	516
917	837	757	677	597	517
918	838	758	678	598	518
919	839	759	679	599	519
920	840	760	680	600	520
921	841	761	681	601	521
922	842	762	682	602	522
923	843	763	683	603	523
924	844	764	684	604	524
925	845	765	685	605	525
926	846	766	686	606	526
927	847	767	687	607	527
928	848	768	688	608	528
929	849	769	689	609	529
930	850	770	690	610	530
931	851	771	691	611	531
932	852	772	692	612	532
933	853	773	693	613	533
934	854	774	694	614	534
935	855	775	695	615	535
936	856	776	696	616	536
937	857	777	697	617	537
938	858	778	698	618	538
939	859	779	699	619	539
940	860	780	700	620	540
941	861	781	701	621	541
942	862	782	702	622	542
943	863	783	703	623	543
944	864	784	704	624	544
945	865	785	705	625	545
946	866	786	706	626	546
947	867	787	707	627	547
948	868	788	708	628	548
949	869	789	709	629	549
950	870	790	710	630	550
951	871	791	711	631	551
952	872	792	712	632	552
953	873	793	713	633	553
954	874	794	714	634	554
955	875	795	715	635	555
956	876	796	716	636	556
957	877	797	717	637	557
958	878	798	718	638	558
959	879	799	719	639	559
960	880	800	720	640	560

775 MHz

Narrowband Channels

- Two may be combined provided that the lower channel number is odd (e.g., 1, 3, 5)
- Four may be combined provide that the lower channel number is 1 + 4n, n = 0 to 479 (e.g., 1, 5, 1917)
- Channel numbers for combined channels are designated by the lowest and highest channel numbers separated by a hyphen, e.g., “1-2” and “1-4”.
- Narrowband channels must maintain a data throughput efficiency of not less than 4.8 kbps for each 6.25 kHz of bandwidth

General Use
Interoperability
Reserve
State License
Low Power
2ndary Trunking
I/O Nationwide Call
I/O Low Speed Data

960 Narrowband Mobile Channels (6.25 kHz each, aggregate to 25 kHz)

799 MHz

1361	1281	1201	1121	1041	961
1362	1282	1202	1122	1042	962
1363	1283	1203	1123	1043	963
1364	1284	1204	1124	1044	964
1365	1285	1205	1125	1045	965
1366	1286	1206	1126	1046	966
1367	1287	1207	1127	1047	967
1368	1288	1208	1128	1048	968
1369	1289	1209	1129	1049	969
1370	1290	1210	1130	1050	970
1371	1291	1211	1131	1051	971
1372	1292	1212	1132	1052	972
1373	1293	1213	1133	1053	973
1374	1294	1214	1134	1054	974
1375	1295	1215	1135	1055	975
1376	1296	1216	1136	1056	976
1377	1297	1217	1137	1057	977
1378	1298	1218	1138	1058	978
1379	1299	1219	1139	1059	979
1380	1300	1220	1140	1060	980
1381	1301	1221	1141	1061	981
1382	1302	1222	1142	1062	982
1383	1303	1223	1143	1063	983
1384	1304	1224	1144	1064	984
1385	1305	1225	1145	1065	985
1386	1306	1226	1146	1066	986
1387	1307	1227	1147	1067	987
1388	1308	1228	1148	1068	988
1389	1309	1229	1149	1069	989
1390	1310	1230	1150	1070	990
1391	1311	1231	1151	1071	991
1392	1312	1232	1152	1072	992
1393	1313	1233	1153	1073	993
1394	1314	1234	1154	1074	994
1395	1315	1235	1155	1075	995
1396	1316	1236	1156	1076	996
1397	1317	1237	1157	1077	997
1398	1318	1238	1158	1078	998
1399	1319	1239	1159	1079	999
1400	1320	1240	1160	1080	1000
1401	1321	1241	1161	1081	1001
1402	1322	1242	1162	1082	1002
1403	1323	1243	1163	1083	1003
1404	1324	1244	1164	1084	1004
1405	1325	1245	1165	1085	1005
1406	1326	1246	1166	1086	1006
1407	1327	1247	1167	1087	1007
1408	1328	1248	1168	1088	1008
1409	1329	1249	1169	1089	1009
1410	1330	1250	1170	1090	1010
1411	1331	1251	1171	1091	1011
1412	1332	1252	1172	1092	1012
1413	1333	1253	1173	1093	1013
1414	1334	1254	1174	1094	1014
1415	1335	1255	1175	1095	1015
1416	1336	1256	1176	1096	1016
1417	1337	1257	1177	1097	1017
1418	1338	1258	1178	1098	1018
1419	1339	1259	1179	1099	1019
1420	1340	1260	1180	1100	1020
1421	1341	1261	1181	1101	1021
1422	1342	1262	1182	1102	1022
1423	1343	1263	1183	1103	1023
1424	1344	1264	1184	1104	1024
1425	1345	1265	1185	1105	1025
1426	1346	1266	1186	1106	1026
1427	1347	1267	1187	1107	1027
1428	1348	1268	1188	1108	1028
1429	1349	1269	1189	1109	1029
1430	1350	1270	1190	1110	1030
1431	1351	1271	1191	1111	1031
1432	1352	1272	1192	1112	1032
1433	1353	1273	1193	1113	1033
1434	1354	1274	1194	1114	1034
1435	1355	1275	1195	1115	1035
1436	1356	1276	1196	1116	1036
1437	1357	1277	1197	1117	1037
1438	1358	1278	1198	1118	1038
1439	1359	1279	1199	1119	1039
1440	1360	1280	1200	1120	1040

802 MHz

802 MHz

1841	1761	1681	1601	1521	1441
1842	1762	1682	1602	1522	1442
1843	1763	1683	1603	1523	1443
1844	1764	1684	1604	1524	1444
1845	1765	1685	1605	1525	1445
1846	1766	1686	1606	1526	1446
1847	1767	1687	1607	1527	1447
1848	1768	1688	1608	1528	1448
1849	1769	1689	1609	1529	1449
1850	1770	1690	1610	1530	1450
1851	1771	1691	1611	1531	1451
1852	1772	1692	1612	1532	1452
1853	1773	1693	1613	1533	1453
1854	1774	1694	1614	1534	1454
1855	1775	1695	1615	1535	1455
1856	1776	1696	1616	1536	1456
1857	1777	1697	1617	1537	1457
1858	1778	1698	1618	1538	1458
1859	1779	1699	1619	1539	1459
1860	1780	1700	1620	1540	1460
1861	1781	1701	1621	1541	1461
1862	1782	1702	1622	1542	1462
1863	1783	1703	1623	1543	1463
1864	1784	1704	1624	1544	1464
1865	1785	1705	1625	1545	1465
1866	1786	1706	1626	1546	1466
1867	1787	1707	1627	1547	1467
1868	1788	1708	1628	1548	1468
1869	1789	1709	1629	1549	1469
1870	1790	1710	1630	1550	1470
1871	1791	1711	1631	1551	1471
1872	1792	1712	1632	1552	1472
1873	1793	1713	1633	1553	1473
1874	1794	1714	1634	1554	1474
1875	1795	1715	1635	1555	1475
1876	1796	1716	1636	1556	1476
1877	1797	1717	1637	1557	1477
1878	1798	1718	1638	1558	1478
1879	1799	1719	1639	1559	1479
1880	1800	1720	1640	1560	1480
1881	1801	1721	1641	1561	1481
1882	1802	1722	1642	1562	1482
1883	1803	1723	1643	1563	1483
1884	1804	1724	1644	1564	1484
1885	1805	1725	1645	1565	1485
1886	1806	1726	1646	1566	1486
1887	1807	1727	1647	1567	1487
1888	1808	1728	1648	1568	1488
1889	1809	1729	1649	1569	1489
1890	1810	1730	1650	1570	1490
1891	1811	1731	1651	1571	1491
1892	1812	1732	1652	1572	1492
1893	1813	1733	1653	1573	1493
1894	1814	1734	1654	1574	1494
1895	1815	1735	1655	1575	1495
1896	1816	1736	1656	1576	1496
1897	1817	1737	1657	1577	1497
1898	1818	1738	1658	1578	1498
1899	1819	1739	1659	1579	1499
1900	1820	1740	1660	1580	1500
1901	1821	1741	1661	1581	1501
1902	1822	1742	1662	1582	1502
1903	1823	1743	1663	1583	1503
1904	1824	1744	1664	1584	1504
1905	1825	1745	1665	1585	1505
1906	1826	1746	1666	1586	1506
1907	1827	1747	1667	1587	1507
1908	1828	1748	1668	1588	1508
1909	1829	1749	1669	1589	1509
1910	1830	1750	1670	1590	1510
1911	1831	1751	1671	1591	1511
1912	1832	1752	1672	1592	1512
1913	1833	1753	1673	1593	1513
1914	1834	1754	1674	1594	1514
1915	1835	1755	1675	1595	1515
1916	1836	1756	1676	1596	1516
1917	1837	1757	1677	1597	1517
1918	1838	1758	1678	1598	1518
1919	1839	1759	1679	1599	1519
1920	1840	1760	1680	1600	1520

805 MHz

Narrowband Channels

- Two may be combined provided that the lower channel number is odd (e.g., 1, 3, 5)
- Four may be combined provide that the lower channel number is $1 + 4n$, $n = 0$ to 479 (e.g., 1, 5, 1917)
- Channel numbers for combined channels are designated by the lowest and highest channel numbers separated by a hyphen, e.g., "1-2" and "1-4".
- Narrowband channels must maintain a data throughput efficiency of not less than 4.8 kbps for each 6.25 kHz of bandwidth

General Use
Interoperability
Reserve
State License
Low Power
2ndary Trunking
I/O Nationwide Call
I/O Low Speed Data

Attachments

Adjacent States LOCs and Inter-Regional Dispute Resolution Agreement Signatures

REGION CHAIRMAN
Mr. Ray Carlson
Division Manager
PBC Sheriff's Office
3228 Gun Club Road
W. Palm Beach, Florida 33406
(561) 688-3514, SC 266-3514
FAX (561) 688-3778, SC 266-3778
carlsonr@pbso.org

THE FLORIDA REGION COMMITTEE

(700 MHz Regional Planning)

REGION VICE CHAIRMAN
Mr. Jose R. Perez
Regional Communications Systems Manager
2601 W. Broward BLV
Fort Lauderdale, FL 33312
(954) 321 4715
FAX (954) 321-5090
Jose_PEREZ2@sheriff.org



October 7, 2008

Mr. Jim Mollohan
700/800 RPC, Region 10 Chairman
Georgia Technology Authority
254 Washington St. SW
Ground Floor
Atlanta, GA 30334-9007

Dear Jim:

As Chairman and on behalf of the Region 9, 700 MHz Regional Planning Committee, Region 9 sends this Letter of Concurrence regarding the final Region 10, Georgia, 700 Mhz Plan.

Best regards, and the Region 9 staff look forward to working with Region 10 over the next very busy years.

Sincerely,

Ray Carlson
Region 9 Chairman

CHAIRMAN - SUBREGION 1

Mr. Paul Winter
1705 Metropolitan Blvd
Suite 200
Tallahassee, Florida 32308
(941) 628-5538
Paul.Winter@sprint.com

CHAIRMAN - SUBREGION 2

Mr. Leven Magruder
800 MHz Communications System Manager
City of Tallahassee
642 C Mabry St.
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FAX (850) 891-5374
magruder@talgov.com

CHAIRMAN - SUBREGION 3

Mr. Lee Mathis
AITO-Radio
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(904) 381-4714
Lmathis@coj.net

CHAIRMAN - SUBREGION 4

Mr. Jason Matthews
Deputy Sheriff/Radio Technologies Services
Lake County Sheriff's Office
360 W. Ruby Street
Tavares, Florida 32778
(352) 742-4093
FAX (352) 742-4097
jason@lcsso.org

CHAIRMAN - SUBREGION 5

Mr. Ben Holycross
Radio Systems Manager
Polk County Emergency Management
285 N. Third Ave
Bartow, Florida 33830
(863) 519-3930
FAX (863) 519-3929
holycros@gte.net

CHAIRMAN - SUBREGION 6

Mr. Andrew Stadler
Lee County Communications Supervisor
Emergency Operations Center
2665 Ortiz Ave.
Fort Myers, Florida 33905
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FAX (239) 479-8036
Astadler@leegov.com

CHAIRMAN - SUBREGION 7

Mr. Richard Jenkins
Martin County Radio Systems Manager
Sheriff's Airport Hanger
2301 Aviation Way
Stuart, Florida 34996
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FAX (772) 220-7095
rjenkins@martin.fl.us

CHAIRMAN - SUBREGION 8

Mr. Jean-Pierre Saliba, P.E.
Supervisor
State Technology Office
4030 Esplanade Way, Suite 315K
Tallahassee, Florida 32399-0950
(850) 922-7418, SC 292-7418
FAX (850) 414-8324, SC 994-8324
jean-pierre.saliba@myflorida.com

Superintendent of Public Works
Theodore H. Lawson

Assistant Superintendent of Public Works
Richard H. Crist, P.L.S.

Equipment Services Manager
Robert J. Gordon



Superintendent of Building Maintenance
George E. Oaks

Director of Inspection Services
Ted Montgomery

Director, Public Safety Communications
Eric M. Linsley

MOBILE COUNTY PUBLIC WORKS

Director of Public Works / County Engineer

Joe W. Ruffer, P.E.

October 9, 2008

Jim Mollohan, Chairman
Region 10, 700 MHz Regional Planning Committee
Georgia Technology Authority
47 Trinity Ave.
Atlanta, GA 30334-9007

Re: Region 10, Georgia 700 MHz Regional Plan

I have received your letter dated October 6, 2008 and a copy of the above-mentioned plan. As Chairman of the Region 1, Alabama Regional Planning Committee, I concur with Region 10's 700 MHz Regional Plan. I also concur with the Inter-Regional Coordination Procedures and Procedures for Resolution of Disputes and I have enclosed a signed copy.

Yours Truly

Eric M. Linsley
Director of Public Safety Communications
Chairman Region 1, 700 MHz Regional Planning Committee

cc Joe Ruffer, P.E.
County Engineer

Region 37 Committee
William Winn, Jr. – Chairman
P.O. Drawer 1228
Beaufort, SC 29901
843-470-3100
843-470-3054 (Fax)

October 29, 2008

Mr. Jim Mollohan PMC, NPDP
700/800 MHz RPC Region 10, Chairman
State of Georgia
Georgia Technology Authority
47 Trinity Avenue, Suite 440-10
Atlanta, GA 30334-0997

Dear Jim:

I have reviewed the Region 10 (Georgia), 700 MHz Regional Communications Plan and have also read Appendix H (Inter-Regional Dispute Resolution Agreement).

This is to advise that South Carolina sees no opposition to these documents and concurs with all written within.

Thank you for all the time and effort that has gone into this planning. We will all benefit from such inter-agency cooperation.

Should you need have any questions or concerns please feel free to call me at 843-470-3100.

Sincerely,



William Winn, Jr. – Chairman
S.C. Region 37 Committee
WWJr/cab



Michael F. Easley
Governor
Bryan E. Beatty
Secretary
Walter J. Wilson, Jr.
Colonel

North Carolina
Department of Crime Control and Public Safety
State Highway Patrol

Location:
512 N. Salisbury Street
Raleigh, NC 27604
(919) 733-7952

Mailing Address:
4702 Mail Service Center
Raleigh, NC 27699-4702

TECHNICAL SERVICES UNIT

16 December, 2008

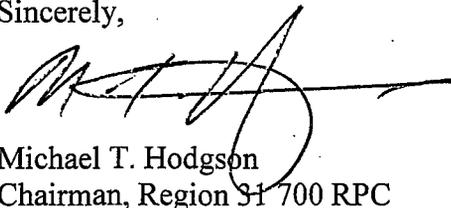
Jim Mollahan, Region 10 Chairman
State of Georgia,
Georgia Technology Authority
47 Trinity Ave SW
Atlanta, GA 30334-9007

Dear Chairman Mollahan,

I am receipt of the Region 10 700 MHz Regional Planning Committee's plan for Tennessee. I have reviewed the Region 10 plan and concur with the plan as presented to Region 31, of which I am the chairman. I congratulate you on the formulation of your plan and wish you success in gaining acceptance from the Federal Communications Commission. I am also returning to you, the dispute resolution document with my signature affixed.

If I may be of further assistance to you, please do not hesitate to contact me at (919) 662-4440.

Sincerely,



Michael T. Hodgson
Chairman, Region 31 700 RPC

Cc: Mr. Wayne Eberhard/Mr. Dyke Hostettler,
Co-Chairs, Region 31 800 RPC



An Internationally
Accredited Agency

Law Enforcement Oath of Honor

On my honor, I will never betray my badge, my integrity, my character, or the public trust. I will always have the courage to hold myself and others accountable for our actions. I will always uphold the constitution, my community, and the agency I serve.

**700 MHz
Planning Committee**

Region 39, Tennessee

**Region 39, 700 MHz Regional Planning Committee
John Johnson, Chairman
3041 Sidco Drive
Nashville, TN 37204**

December 9, 2008

Jim Mohollon, Chairman
Region 10, Georgia, Regional Planning Committee
Georgia Technology, Authority
47 Trinity Ave. S.W.
Atlanta, GA 30334

Dear Jim:

As Chairman and on behalf of the Region 39, 700 MHz Regional Planning Committee, I send this Letter of Concurrence along with comments regarding the Region 10, Georgia 700 MHz Plan.

After reviewing the Region 10 Plan, Region 39 hereby requests that the below listed channels be reviewed by Region 39 prior to the application being submitted to the FCC. Region 39 comments are solely based on distance and not a specific site, power or ERP. Region 39 has used 70 mile criteria between counties lines to make this determination. Region 39 realizes that the actual site will most likely be further than 70 miles, but requests the below listed channels receive our approval prior to submission to the FCC in order to mitigate interference between co-channel users.

GA County	Channel #	TN County	Comments
Banks	165 - 168	Monroe	Please coordinate with Region 39 prior to application submission to FCC.
	489 - 492	Monroe	
	821 - 824	Blount	
Barrow	385 - 386	Polk	Please coordinate with Region 39 prior to application submission to FCC.
	917 - 920		
Bartow	489 - 492	Grundy	Please coordinate with Region 39 prior to application submission to FCC.
	821 - 824	Marion	
	941 - 944	McMinn	
Catoosa	413 - 416	Blount	Please coordinate with Region 39 prior to application submission to FCC.

Catoosa	453 - 456 529 - 532	Blount Warren	Please coordinate with Region 39 prior to application submission to FCC.
Chattooga	373 - 376 429 - 432	Meigs Polk	Please coordinate with Region 39 prior to application submission to FCC.
Cherokee	17 - 20 409 - 412 465 - 468 581 - 584 621 - 624	Rhea Rhea McMinn Marion McMinn	Please coordinate with Region 39 prior to application submission to FCC.
Cobb	213 - 216 289 - 292 337 - 340 541 - 544 677 - 680 789 - 792	Polk Hamilton Hamilton Bradley Bradley Hamilton	Please coordinate with Region 39 prior to application submission to FCC.
Dade	329 - 332 445 - 448 517 - 520 633 - 636 633 - 636 877 - 880	Monroe Warren Cannon Bedford Cumberland Rutherford	Please coordinate with Region 39 prior to application submission to FCC.
Dawson	389 - 392 673 - 676	Bradley Loudon	Please coordinate with Region 39 prior to application submission to FCC.
DeKalb			No issues
Fannin	93 - 94 93 - 96 333 - 336 473 - 476	Sevier Van Buren Anderson Rhea	Please coordinate with Region 39 prior to application submission to FCC.

Floyd	15 - 16 165 - 168 385 - 386 701 - 704 741 - 744 781 - 782 783 - 784 861 - 864 917 - 920	Grundy Monroe Polk Monroe Sequatchie Marion Grundy Monroe Polk	Please coordinate with Region 39 prior to application submission to FCC.
Forsyth	569 - 572 713 - 716 793 - 796 865 - 868	Polk Bradley McMinn Hamilton	Please coordinate with Region 39 prior to application submission to FCC.
Franklin	909 - 912	Polk	Please coordinate with Region 39 prior to application submission to FCC.
Fulton	41 - 44 161 - 164 205 - 206 437 - 438 477 - 480 561 - 564 629 - 630 669 - 672 757 - 760 905 - 908 945 - 948	Hamilton Bradley Bradley Polk Bradley Bradley Polk Hamilton Bradley Hamilton Hamilton	Please coordinate with Region 39 prior to application submission to FCC.
Gilmer	57 - 60 285 - 288 397 - 400	Sequatchie Van Buren Sequatchie	Please coordinate with Region 39 prior to application submission to FCC.

Gilmer	837 - 840	Blount	Please coordinate with Region 39 prior to application submission to FCC.
Gordon	525 - 528	McMinn	Please coordinate with Region 39 prior to application submission to FCC.
Gwinnett	97 - 100 705 - 708 825 - 828	Bradley	Please coordinate with Region 39 prior to application submission to FCC.
Habersham	789 - 792	Sevier	Please coordinate with Region 39 prior to application submission to FCC.
Hall	413 - 416 637 - 640	Blount	Please coordinate with Region 39 prior to application submission to FCC.
Jackson	861 - 864	Monroe	Please coordinate with Region 39 prior to application submission to FCC.
Lumpkin	209 - 212 449 - 452 605 - 608	Rhea Rhea Hamilton	Please coordinate with Region 39 prior to application submission to FCC.
Murray	129 - 132 249 - 252 341 - 344	Sevier Roane Sevier	Please coordinate with Region 39 prior to application submission to FCC.
Paulding	133 - 136 425 - 428	Marion Hamilton	Please coordinate with Region 39 prior to application submission to FCC.
Pickens	293 - 296 589 - 592 829 - 832	Blount Meigs Sequatchie	Please coordinate with Region 39 prior to application submission to FCC.
Polk	605 - 608	Hamilton	Please coordinate with Region 39 prior to application submission to FCC.
Rabun			No issues
Stephens	129 - 132 369 - 372 469 - 472	Sevier Polk Blount	Please coordinate with Region 39 prior to application submission to FCC.
Towns	217 - 220 365 - 368 597 - 600	Loudon Loudon Bradley	Please coordinate with Region 39 prior to application submission to FCC.

Towns	717 - 720	Rhea	Please coordinate with Region 39 prior to application submission to FCC.
Union	201 - 204	Hamilton	Please coordinate with Region 39 prior to application submission to FCC.
	321 - 324	Jefferson	
	373 - 376	Meigs	
	425 - 428	Knox	
	425 - 428	Hamilton	
	545 - 548	Loudon	
Walker	121 - 124	White	Please coordinate with Region 39 prior to application submission to FCC.
	217 - 220	Loudon	
	217 - 220	Warren	
	393 - 396	Warren	
	485 - 488	Roane	
	833 - 836	Roane	
White	433 - 436	Loudon	Please coordinate with Region 39 prior to application submission to FCC.
	533 - 556	Hamilton	
	709 - 712	Hamilton	
Whitfield	81 - 84	White	Please coordinate with Region 39 prior to application submission to FCC.
	297 - 300	Morgan	
	405 - 408	Knox	
	585 - 588	Morgan	
	749 - 752	Loudon	
	797 - 800	Morgan	

Other than the above comments, Region 39 has no objections to the Region 10 700 MHz Plan.

Sincerely,

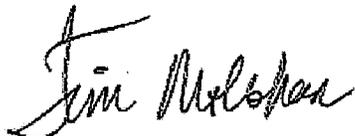


John W. Johnson
Region 39 Chairman

CONCLUSION

IN AGREEMENT HERETO, Regions 1, 9, 10, 31, 37 and 39 hereunto set their signatures the day and year first above written.

Respectfully,
[all signatories to agreement]



Jim Mollohan
Chairman, Region 10 Georgia

John Johnson
Chairman, Region 39 Tennessee

Eric Linsley
Chairman, Region 1 Alabama

William Winn
Chairman, Region 37 South Carolina



Ray Carlson
Chairman, Region 9 Florida

Michael T. Hodgson
Chairman, Region 31 North Carolina

CONCLUSION

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[all signatories to agreement]



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Chairman, Region 39 Tennessee



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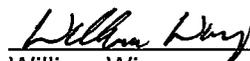
Respectfully,
[all signatories to agreement]



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Chairman, Region 10 Georgia

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Chairman, Region 39 Tennessee

Eric Linsley
Chairman, Region 1 Alabama



William Winn
Chairman, Region 37 South Carolina

Ray Carlson
Chairman, Region 9 Florida

Michael T. Hodgson
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Chairman, Region 9 Florida



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Chairman, Region 31 North Carolina

CONCLUSION

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[all signatories to agreement]



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Chairman, Region 9 Florida

Michael T. Hodgson
Chairman, Region 31 North Carolina