

**Region 49**  
**700 MHz Regional Planning Committee**  
Minutes of the December 30, 2003, meeting  
Texas Criminal Law Enforcement Auditorium  
Building E  
6100 Guadalupe  
Austin, Texas 78752

Chairman Ron Mayworm called the Region 49 Regional Planning Committee (RPC) to order at 9:12 am. The following individuals were present:

Ron Mayworm, Chairman	Danny Hobby, Travis County
Greg Petrey, Secretary/Treasurer	Craig Covey, M/A-COM
Ken Yoder, APCO Coordinator	Aaron Slaughter, City of Lockhart
Pat Worsham, TxDOT	Larry Blare, City of Waco
Lee Cox, Mexia PD	Clint Bushacker, Winchester VFD
Wayne Canaday, McLennan County	Jim Sawyer, Dailey Wells Comm.
Wil Geltmeier, TxDOT	Dave Sweet, Dailey Wells Comm.
Bill Davis, City of Austin	Gary Young, Copperas Cove FD

**Item 1: Review and approve agenda; introductions.** The agenda was approved and introductions made.

**Item 2: Determine if a quorum is present.** 26 separate entities were present at the October 31, 2001 meeting. Under the interim bylaws, a quorum is 30% of the entities present at the previous meeting, or, for this meeting, a minimum of 8. There were members from 9 separate entities present as this count was taken, thus meeting the quorum requirement.

**Item 3: Review and approve minutes of the October 31, 2001 meeting.** Pat Worsham moved, and Danny Hobby seconded a motion that the location of the meeting be added to the minutes, and that they be approved. The motion passed.

**Item 4: Treasurer's Report.** Treasurer Greg Petrey reported a balance of \$ 585.86 in the committee's account. Expenses since the last meeting have included bank charges, postage, reimbursable expenses for the Chairman to receive CAPRAD training before the annual APCO conference, and a share (with several other Texas RPCs) of the reimbursable expenses for Ken Yoder to also receive CAPRAD training before the APCO conference. Ron Mayworm reported that additional funds to cover the committee's expenses may be available on an as-needed basis. Danny Hobby moved, and Wil Geltmeier seconded, a motion to accept the treasurer's report. The motion passed.

**Item 5: Subcommittee Reports. Bylaws Subcommittee.** Ron Mayworm reported on behalf of Chairman Ken Biederman, who passed away during 2002. The subcommittee met on November 28, 2001, in College Station, Texas. Since there was significant concern shown at the last meeting that, at various times, participants on the committee may be very few, and that achieving a quorum of a certain fixed number of participants may prevent the committee from conducting necessary business, the subcommittee recommended that a quorum be defined as 30% of the number of entities present at the most previous meeting. The subcommittee also recommended that article 2.1A of the interim bylaws include Native American Tribes, forestry/conservation, emergency management, and homeland security as examples of entities eligible for membership on the RPC. Danny Hobby moved, and Pat Worsham seconded a motion to include these changes and adopt the bylaws as permanent. The motion passed.

**Plan Writing Subcommittee.** Ron Mayworm reported that the subcommittee met on November 28, 2001, in College Station, Texas. The plan was divided into 14 major sections, and several members had each agreed to be responsible for writing several of the sections. The draft plan to be reviewed today is organized slightly differently, since the need for rearrangement became apparent during the writing process.

**Outreach Subcommittee.** Greg Petrey reported that direct mail of meeting notices remains the most effective way to reach potential "interested parties." He has continued to update mailing lists of public safety agencies and government entities, mostly received from the regional councils of governments. More than 700 copies of the notice for this meeting, for example, were mailed since the issue of the new 4.9 GHz band is to be discussed.

**Item 6: Discussion and possible action to adopt permanent bylaws.** This item had already been passed as part of the Bylaws Subcommittee report.

**Item 7: Update on the CAPRAD Database.** Ron Mayworm gave some background and status information about the CAPRAD database program. He and Ken Yoder have received training for its use.

**Item 8: Update on the Region 49 website and listserver.** Greg Petrey noted that, at the first meeting, this committee had chosen to use a Yahoo group and list to maintain the flow of information. A few items have been posted, but the group of participants is small. Since Yahoo is adopting more stringent requirements for use of their system, Greg volunteered to establish an independent Region 49 web site that can have separate areas for each frequency band. Pat Worsham moved, and Wil Geltmeier seconded, a motion that internet activities of Region 49 be moved from the Yahoo system. The motion passed.

**Item 9: Review and discussion of the draft Region 49 700 MHz plan:**

Ron Mayworm noted that this draft borrowed heavily from the Region 24 plan, with specific modifications applicable to Region 49. Since producing this plan is the primary task of this committee, we have no choice but to take the time to review it in detail, paragraph by paragraph.

A short break was taken, from 10:13 am to 10:30 am.

Ron Mayworm led the review and discussion of the draft 700 MHz plan. The following main issues were discussed and decided by consensus:

- Future copies of the draft plan will include the word "DRAFT" and date on the header/footer of each page
- The words "allocation" and "allotment" will be differentiated, and defined in the plan
- For giveback frequencies, applicants must provide a list of all current frequencies and their uses, and justify use of any frequencies they wish to retain
- The application review process needs clarification. Should a review committee be established, as there is at 800 MHz?
- Applications for short-spacing of frequencies will be considered as allowed by FCC rules
- 120 days will be allowed for parties to resolve allocation disputes
- Parties who are in a pre-licensed status for a frequency on the CAPRAD database will have rights to protest other applications for that frequency
- The term "campus use" will be changed to "limited area;" the method for identifying "limited area" channels needs clarification; applications for a "limited area" channel may be protested by the same entities that are eligible to protest other allocations; however, the right to protest should be limited to those entities that could be harmed by an allocation

A lunch break was taken from 12:10 pm to 1:17 pm.

- The ERP listed in section 3.4 will be changed to agree with the FCC rules and will be the same in the region-controlled channels as they are on the FCC-controlled channels
- The priority matrix had the maximum points available for a multi-agency system increased to 35 points; the maximum points available for proof of financial commitment was reduced to 25 points; and the relative percentage of giveback frequencies from an applicant was to be given up to 10 points
- In section 6.3 the term "county area" was changed to "orphaned channel area" and was defined as the county area plus 10 miles in all directions
- In section 6.4 a request for extension of time to implement a system will be considered by the full Regional Planning Committee

Ron Mayworm indicated that these and some other minor changes would be incorporated in the next draft of the 700 MHz plan.

- Item 10: An overview of the 4.9 GHz band**
- Item 11: A review of operational parameters for the 4.9 GHz band**
- Item 12: A review of the FCC requirement for development of a regional 4.9 GHz plan within 12 months**
- Item 13: Discussion and possible action regarding committee's intent to coordinate 4.9 GHz in Region 49**

In the interest of time, these issues were combined for discussion and action. It was specifically noted that the FCC has not given the regions any authority or mechanism to enforce any plan it may adopt for 4.9 GHz. It appears that the region could only function as a repository of information voluntarily given to it by licensees. Greg Petrey moved, and Pat Worsham seconded, a motion that the committee continue considering taking action to coordinate 4.9 GHz in Region 49, pending further information from the FCC, APCO, NPSTC, or any other source. The motion passed. Ron Mayworm asked for any volunteers to chair a regional 4.9 GHz committee. There were no volunteers.

- Item 14: Old Business.** There was no old business.
- Item 15: New Business.** There was no new business.
- Item 16: Receive public comments.** There were no public comments.
- Item 17: Adjourn.** Ron Mayworm adjourned the meeting at 2:58 pm.

Respectfully submitted:

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Ron Mayworm, Chairman  
for the secretary

**Subject: [RPC49] Bylaws subcommittee meeting information**

**Date:** Wed, 12 Dec 2001 20:28:33 -0000

**From:** "rmayworm" <ron@ktsignals.com>

**Reply-To:** RPC49@yahoogroups.com

**To:** RPC49@yahoogroups.com

On November 28, 2001, the Bylaws Subcommittee met in College Station with the following persons attending:

Ken Biederman, Chairman (Burluson County)  
Troy Poehl (Burluson County)  
Richard Herndon (TxDOT)  
Ron Mayworm (City of College Station)

They reviewed the wording of the interim bylaws and agreed that the following wording of Section 3.5, Quorum, incorporated the changes requested by the full committee at the October 29th meeting:

"At any meeting of the members thirty (30) per cent of the voting members as of the close of the most previous Annual, Special, or Regular meeting shall constitute a quorum. . ."

They also agreed that the interim bylaws, with the above wording, were adequate for adoption as permanent bylaws. Accordingly, these interim bylaws will be presented for permanent adoption at the next meeting of the full committee.

I have posted the interim bylaws as a word file. The Bylaws Subcommittee welcomes any comments or suggestions to be posted to the group (another subcommittee meeting could be held if further changes are needed).

Ron Mayworm

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**From:** ☺ "rmayworm" <ron@ktsignals.com>  
**Date:** Wed Dec 12, 2001 2:28 pm  
**Subject:** **Bylaws subcommittee** meeting information

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On November 28, 2001, the Bylaws Subcommittee met in College Station with the following persons attending:

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- Troy Poehl (Burleson County)
- Richard Herndon (TxDOT)
- Ron Mayworm (City of College Station)

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Ron Mayworm

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**Subject: [RPC49] Plan Writing Subcommittee meeting information**

**Date:** Wed, 12 Dec 2001 20:58:54 -0000

**From:** "rmayworm" <ron@ktsignals.com>

**Reply-To:** RPC49@yahoogroups.com

**To:** RPC49@yahoogroups.com

On November 28, 2001, the Plan Writing Subcommittee met in College Station with the following persons attending:

Ron Mayworm, Chairman (City of College Station)  
Richard Herndon (TxDOT)  
Ken Biederman (Burleson County)  
Troy Poehl (Burleson County)

Ron suggested that writing the plan be divided into 14 sections that followed the format of the national template and guidelines. These 14 sections are:

1. Chairperson
2. RPC membership list
3. Description of the region
4. Notification process
5. Plan summary
6. Interoperability channel utilization
7. Additional interoperability spectrum
8. General use allocations
9. Competing applicant evaluation matrix/process
10. Application process
11. Adjacent region coordination
12. "Best possible use of the spectrum" explanation
13. Future planning process
14. "All meeting open to the public" certification

It was noted that sections 6 and 7 will not be required in the Region 49 plan since the State of Texas has chosen to manage the interoperability channels statewide.

It was also noted that sections 2 and 4 contain information currently being maintained by the Committee Secretary, Greg Petrey. It was agreed to ask him to draft these sections (and he subsequently agreed).

Richard Herndon volunteered to draft sections 3 and 9.

Ron Mayworm will draft sections 1, 5, 8, 10, 11, 12, 13, and 14 (noting that sections 1, 11, and 14 should each only be a single paragraph).

The subcommittee is willing to accept help from any other committee members who wish to volunteer.

Ron Mayworm

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**Date:** Wed Dec 12, 2001 2:58 pm  
**Subject:** Plan Writing Subcommittee meeting information

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- Ron Mayworm, Chairman (City of College Station)
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- Troy Poehl (Burlleson County)

Ron suggested that writing the plan be divided into 14 sections that followed the format of the national template and guidelines. These 14 sections are:

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Ron Mayworm

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Region 49  
700 MHz Regional Planning Committee  
Minutes of the June 28, 2006, meeting

Waco McLennan County Public Health District Preparedness Training Room  
225 W. Waco Drive, Waco, TX 76707

Chairman Ron Mayworm called the meeting to order at 9:30 a.m. The following members and guests were present:

Pat Worsham, Alexander Util. Eng.
Bill Blowers, Bell County
James Benton, Texas DPS
Larry Blare, City of Waco
Tim Driscoll, RCC Consultants
Gilbert Paez, City of Austin
Mike Simpson, City of Austin
Bill Davis, City of Austin
Aaron Slaughter, City of Lockhart

Maureen Ganner, City of Round Rock
Ray Ganner, Ganner Associates
Brice Shelton, Motorola
Wayne Canady, McLennan County
Harold Ferguson, Waco Fire
Bette Rinehart, Motorola
Dalton Cross, Bell County
Ron Mayworm, Chair, City of Bryan

- Item 1: Introductions, quorum determination, review and approve agenda.**
- Item 2: Election of a new secretary:** Chuck Brotherton of Travis County (not in attendance) was re-elected to the combined post of Secretary/Treasurer. Moved by Mike Simpson, seconded by (inaudible). Unanimous approval.
- Item 3: Review and approve minutes of 12/30, 2003, meeting.** The minutes were approved. Motion: Larry Blare; Second: Aaron Slaughter. Unanimous approval.
- Item 4: Treasurer's report:** The current treasurer (Ron Mayworm) reported a current balance of \$465.86 as of 6/28/2006. Bank charges of \$15/month are the most significant draw on this account. Motion by Mike Simpson to reimburse Ron his out-of-pocket expenses for tapes, batteries; seconded by Harold Ferguson. Unanimous approval. New balance after reimbursement to Ron will be **\$271.82**.
- Item 5: Election of a new treasurer:** Discussion of legality, under RPC rules, of combining offices of Secretary and Treasurer. Discussion of access to RPC grant funds by Chuck Brotherton, Travis County (if elected).
- Item 6: Plan Writing Subcommittee report:** Ron Mayworm chairs this committee. Last meeting was 2001 in College Station. Due to retirements and other attrition, plan-writing is now a one-man show.
- Item 7: Appointment of a new chair for the Outreach Subcommittee:** FCC more concerned with process and documentation of the planning process than with content of the plan itself. So, need to get all local, regional, state and in-state feds involved in regional planning process.

Need a comprehensive direct-mail list. Previous list had 700+ addresses but this was lost. Needs to be rebuilt. Mike Simpson volunteers to commit his available resources to compiling a new list and doing the mail-out.

- Item 8:** **Update on CAPRAD 700 MHz database at <http://wireless.fcc.gov/publicsafety/700MHz/plans.html>** : Check for status of regional plans. Still a viable planning tool.
- Item 9:** **Update on the Region 49 web site and list server:** <http://www.region49.org> has links to 700 and 800 planning information pages. Draft 700 MHz plan is posted there. Need someone to keep it current. Volunteers? Mike Simpson and City of Austin CTM.
- Item 10:** **4.9 GHz planning:** Rules say that if RPC chooses not to coordinate this spectrum, then the field is open to others. Licenses are easily available. (Ron introduces Bette Rinehart of Motorola as a valuable planning resource for 700 and 4.9 planning.) Motion from Mike Simpson to combine 4.9 GHz planning under the duties of the 700 MHz RPC. Seconded by (inaudible). Motion approved.
- Item 11:** **Overview of recent activities re. use of broadband technologies in the 700 MHz band:** Concern expressed over FCC "fast tracking" the initiative to add broadband channels to 700 MHz, before public safety agencies have had time to assess their needs and plan accordingly. Ron says the likely goal is to set broadband guidelines in place before frequencies are assigned nationwide. Narrow- and wide-band channeling cannot easily be undone once it's loaded.
- Does this committee wish to file comments to the FCC recommending building flexibility into the channelization of 700 MHz, for a mix of narrow-, wide-, and broad-band? Not an action item but Ron will see that it's done.
- Item 12:** **Review and discuss the draft Region 49 700 MHz Plan dated 5-30-06:**
- Ron goes through the draft plan page by page, section by section.
  - Question about the CAPRAD database and how it is accessed. Ron states that it is freely accessible. Signing on as "guest" allows general public to review published plans.
  - CAPRAD URL is <http://caprad.nlectc.du.edu/cp/index.jsp>.
  - Section 3.2, "'Limited Area' Operations," borrowed from State of Missouri plan. Properly licensed limited area channels under the Region 49 plan would not count against a licensee's allotment of other general use channels.
  - Ron asks if he's going too fast. No objections to review thus far. Ron states he does not want this to be a "one man show."

-- Section 3.4, Low Power Channels: Discussion of whether to modify language in this section. Ron notes that language here is common to other plans but he will consider modifying this section.

-- Section 4: Priority Matrix: Discussion of points assignment for channel loading: Should a bullet be added to address this as a scoring criterion?

-- Section 7.2: Brief discussion about the narrow-band deadline of 12/31/2016.

-- Section 8, Interoperability Channels: Ron states that this section defers to the TSIEC guidelines.

-- By-laws already approved. Attachments included in separate package.

-- Ron states that we must now give others the opportunity to critique what's been generated so far by this committee. We need to have several more meetings to finalize this plan.

**Item 13: Old Business:** None.

**Item 14: New Business:** Discussion about next meetings, locations and schedule.  
-- Offer from Bell County to host an upcoming meeting -- around the new year?

-- October meeting set for City of Austin.

-- End of August meeting? Meeting set for August 17 in Austin.

**Item 15: Receive public comment:**

**Item 16: Adjourn:** Meeting adjourned at 12:30 p.m.

Region 49  
700 MHz Regional Planning Committee  
Minutes of the August 17, 2006, meeting

City of Austin Learning and Research Center  
2800 Spirit of Texas Drive, Austin, Texas

Chairman Ron Mayworm called the meeting to order at 9:35 a.m. The following members and guests were present:

Chuck Brotherton, Travis Co. Emer. Ser.
Ted Young, Marble Falls PD
Maureen Ganner, Round Rock PD
Ken Graalum, Cedar Park/CWICS
Larry Blare, City of Waco
Pat Worsham, Alexander Util. Eng.
Bill Blowers, Bell County
Archie Hollingsworth, Burnet Co. SO
Charlie Boyce, Burnet Co. SO
Kenneth Yoder, Texas APCO

Larry W. Keith, Leon Co. SO
Aaron Slaughter, City of Lockhart
Robert Pletcher, Texas DPS
Michael Sevier, Brazos Valley COG
Kyle Connor, M/A-Com
James Benton, APCO/DPS
Gilbert Paez, City of Austin
Elizabeth Lindemann, City of Austin
Arlatha Guerrero, City of Austin
Ron Mayworm, Chair, City of Bryan

- Item 1: Introductions, quorum determination, review and approve agenda.**
- Item 2: Review and approve minutes of the June 28, 2006 meeting:** Secretary noted that the vote on Item 10 was inaudible on the tape. (Secretary was not present on 6/28.) The Chairman stated that the motion had passed and that the minutes should be updated to reflect this result. Vote to approve 6/28 minutes was deferred pending this revision.
- Item 3: Treasurer's Report:** Treasurer reported a balance of \$256.82, pending reimbursing Chairman Ron Mayworm for \$98.86 in out-of-pocket expenses related to preparing materials for this meeting. Ron noted that future reimbursement money will have to be applied for based on a report of estimated needs. Bob Pletcher made motion to accept the Treasurer's report, seconded by Maureen Ganner, approved unanimously. Bob Pletcher made motion to reimburse Ron's expenses, seconded by Larry Blare, approved unanimously.
- Item 4: Outreach Activities:** Discussion on requirement to broaden participation in reviewing and gathering support for the 700 MHz regional plan. Bob Pletcher volunteers DPS video conferencing services to allow remote participation at future meetings. Will require advance scheduling. The December meeting in Bell County is identified as a possible target for making this available.
- Item 5: Update on Region 49 web site and list server:** Discussion of plan to move hosting service for the R49 web page from the present commercial host to City of Austin, as offered by Mike Simpson of City of Austin Wireless Communication Services Division. Further research is needed.

**Item 6:**

**Short reply comments filed with the FCC regarding use of broadband technologies in the 700 MHz band:** Ron filed comments on 7/06/06, as follows:

"On June 28, 2006, the Region 49 700 MHz Regional Planning Committee met and discussed the issue of broadband and wide band needs in the 700 MHz public safety band.

We determined that the need for differing amounts of wide band and broadband spectrum varies just between the different counties in our 30-county region.

We strongly believe that a "one size fits all" distribution of wide band and broadband spectrum will result in the inefficient use of the spectrum in many regions.

Therefore, we agree with the comments of NPSTC and many others that selection of the appropriate mix of wide band and broadband spectrum should be made by the individual regional planning committees.

We also believe that rearranging the placement of the narrow band voice channels, after years of RPC planning has occurred, would be seriously counterproductive and costly."

**Item 7:**

**Review and discussion of the draft Region 49 700 MHz plan (dated 08-14-06):** (Full text with addenda may be found on the CAPRAD web site and on the R49 web site at [www.region49.org](http://www.region49.org).

- Ron describes Regional Plan Template (available at <http://www.npstc.org/documents/IM00017K-20010322-IM005-K.pdf>), which details 14 areas that a successful plan must address.

- **Section 2.1:** First inclusion of "Description of Region." Update "area" to say "square miles." Some county descriptions need changing – Freestone, Lee, Washington.

- **Page 5, paragraph 5:** Too particular to Austin. Change "Austin" to "metro areas."

- **Page 6:** Verify that RPC meetings have been advertised on APCO web site.

- **Section 2.5:** Leave State of Texas out of intra-regional dispute resolution, change to read "5 members from jurisdictions within Region 49," which could include State if needed.

- **Section 3.6,** Procedure for Requesting Channel Assignments:" Discussion of filing window. All jurisdictions need same opportunity but should "first come, first served" be the guiding policy? Section stands as-

is. If scoring is needed, the 5-member committee defined in 2.5 will do the scoring.

**Section 4.0, Priority Matrix:** Third category of scoring added – 25 points for spectrum efficiency with channel loading. "Procedures outlined in Section 2.4" not a valid reference. Needs to be fixed. Matrix seems weighted to larger systems so rules need to be clarified. Add 10 points for first application submitted, marked with CAPRAD date stamp or certified mail postmark.

- **Channel loading** not addressed by FCC in its rules for 700 MHz; should we include loading criterion in R-49 rules? Minimum 75 per channel? Also need to support applications for system expansion (voice, not data). Decision is 50 units per 12.5 KHz channel (half the 800 MHz requirement of 100 units per 25 KHz channel). Will require 50-75 units to qualify for first channel, then 50 more for each subsequent. Conventional channel assignments will be dealt with case by case.

- **Trunked criteria:** If entity requests more than five 700 MHz channels, system must be trunked.

- **Section 8, Interoperability:** Bob Pletcher recommends adding words "Project 25 Common Air Interface" to define interoperability standard. Ron notes that FCC rules require P-25 CAI "compliance." Also, is mutual aid "required" or "a necessity?"

**Item 8: Old business:** None.

**Item 9: New business:** None.

**Item 10: Receive public comment:** None.

**Item 11: Adjourn:** Motion made by Pat Worsham, seconded by Larry Blare. Meeting adjourned at 1:00 p.m.

Region 49  
700 MHz Regional Planning Committee  
Minutes of the October 19, 2006, meeting

City of Austin Learning and Research Center  
2800 Spirit of Texas Drive, Austin, Texas

Chairman Ron Mayworm called the meeting to order at 9:35 a.m. The following members and guests were present:

Bill Blowers, Bell County
Pat Worsham, Alexander Util. Eng.
David Clawson, City of Taylor
Rita Mooney, DPS
Larry Blare, City of Waco
Kenneth Yoder, Texas APCO
Clay Cassard, Motorola
John Wynn, Austin Community College
Rosanna Wisener, San Marcos PD
Mark Minnick, San Marcos PD

Gilbert Paez, City of Austin
Elizabeth Lindemann, City of Austin
Larry Swim, Fayette County
Cristy Knapp, Llano County EMS
Greg Knapp, Llano County EMS
Ron Martin, Motorola
James Benton, APCO/DPS
Peter Scheets, City of Bryan PD
Chuck Brotherton, Travis County
Ron Mayworm, Chair, City of Bryan

- Item 1: Introductions, quorum determination, review and approve agenda.**
- Item 2: Review and approve minutes of the June 28, 2006, meeting and August 17, 2006, meeting:**  
 - Approve 6/28/06 minutes: Motion by Greg Knapp, second by Rita Mooney, unanimous approval.  
 - Approve 8/17/06 minutes: Motion by Mark Minnick, second by Rita Mooney, unanimous approval.
- Item 3: Treasurer's Report:** Treasurer reported a balance of \$256.82, pending reimbursing Chairman Ron Mayworm for \$98.86 in out-of-pocket expenses related to preparing materials for this meeting. Ron noted that future reimbursement money will have to be applied for based on a report of estimated needs. Bob Pletcher made motion to accept the Treasurer's report, seconded by Maureen Ganner, approved unanimously. Bob Pletcher made motion to reimburse Ron's expenses, seconded by Larry Blare, approved unanimously.
- Item 4: Outreach Activities:** Discussion on requirement to broaden participation in reviewing and gathering support for the 700 MHz regional plan. Bob Pletcher volunteers DPS video conferencing services to allow remote participation at future meetings. Will require advance scheduling. The December meeting in Bell County is identified as a possible target for making this available.
- Item 5: Update on Region 49 web site and list server:** Discussion of plan to move hosting service for the R49 web page from the present commercial

host to City of Austin, as offered by Mike Simpson of City of Austin Wireless Communication Services Division. Further research is needed.

**Item 6: Short reply comments filed with the FCC regarding use of broadband technologies in the 700 MHz band:** Ron filed comments on 7/06/06, as follows:

"On June 28, 2006, the Region 49 700 MHz Regional Planning Committee met and discussed the issue of broadband and wide band needs in the 700 MHz public safety band.

We determined that the need for differing amounts of wide band and broadband spectrum varies just between the different counties in our 30-county region.

We strongly believe that a "one size fits all" distribution of wide band and broadband spectrum will result in the inefficient use of the spectrum in many regions.

Therefore, we agree with the comments of NPSTC and many others that selection of the appropriate mix of wide band and broadband spectrum should be made by the individual regional planning committees.

We also believe that rearranging the placement of the narrow band voice channels, after years of RPC planning has occurred, would be seriously counterproductive and costly."

**Item 7: Review and discussion of the draft Region 49 700 MHz plan (dated 08-14-06):** (Full text with addenda may be found on the CAPRAD web site and on the R49 web site at [www.region49.org](http://www.region49.org)).

- Ron describes Regional Plan Template (available at <http://www.npstc.org/documents/IM00017K-20010322-IM005-K.pdf>), which details 14 areas that a successful plan must address.

- **Section 2.1:** First inclusion of "Description of Region." Update "area" to say "square miles." Some county descriptions need changing – Freestone, Lee, Washington.

- **Page 5, paragraph 5:** Too particular to Austin. Change "Austin" to "metro areas."

- **Page 6:** Verify that RPC meetings have been advertised on APCO web site.

- **Section 2.5:** Leave State of Texas out of intra-regional dispute resolution, change to read "5 members from jurisdictions within Region 49," which could include State if needed.

- **Section 3.6**, Procedure for Requesting Channel Assignments:"  
Discussion of filing window. All jurisdictions need same opportunity but should "first come, first served" be the guiding policy? Section stands as-is. If scoring is needed, the 5-member committee defined in 2.5 will do the scoring.

**Section 4.0**, Priority Matrix: Third category of scoring added – 25 points for spectrum efficiency with channel loading. "Procedures outlined in Section 2.4" not a valid reference. Needs to be fixed. Matrix seems weighted to larger systems so rules need to be clarified. Add 10 points for first application submitted, marked with CAPRAD date stamp or certified mail postmark.

- **Channel loading** not addressed by FCC in its rules for 700 MHz; should we include loading criterion in R-49 rules? Minimum 75 per channel? Also need to support applications for system expansion (voice, not data). Decision is 50 units per 12.5 KHz channel (half the 800 MHz requirement of 100 units per 25 KHz channel). Will require 50-75 units to qualify for first channel, then 50 more for each subsequent. Conventional channel assignments will be dealt with case by case.

- **Trunked criteria:** If entity requests more than five 700 MHz channels, system must be trunked.

- **Section 8**, Interoperability: Bob Pletcher recommends adding words "Project 25 Common Air Interface" to define interoperability standard. Ron notes that FCC rules require P-25 CAI "compliance." Also, is mutual aid "required" or "a necessity?"

**Item 8:**       **Old business:** None.

**Item 9:**       **New business:** None.

**Item 10:**      **Receive public comment:** None.

**Item 11:**      **Adjourn:** Motion made by Pat Worsham, seconded by Larry Blare.  
Meeting adjourned at 1:00 p.m.

Region 49  
700 MHz Regional Planning Committee  
Minutes of the January 18, 2007, meeting

Bell County Communications Center  
708 West Avenue "O," Belton, Texas

Chairman Ron Mayworm called the meeting to order at 9:40 a.m. The following members and guests were present:

Richard Gruetzner, Travis County SO
Jim McLean, Pflugerville PD
Ted Young, Marble Falls PD
Clay Cassard, Motorola
Larry Blare, City of Waco
Pat Worsham, Alexander Utility Engrg., Inc.
Rusty Smith, Robinson PD
Alain Babin, Round Rock PD

Zeta Fail, College Station PD
Ben Roper, College Station, TX
Bill Blowers, Bell County
Wayne Cannaday, McLennan County
Wil Geltmeier, Hill County ESD 1
Terry Wright, Kyle FD, Hays County
Chuck Brotherton, Travis County
Ron Mayworm, Chair, City of Bryan

**Item 1: Introductions, quorum determination, review and approve agenda.**

**Item 2: Review and approve minutes of the October 19, 2006, meeting:**  
- No motion to approve. Minutes stand.

**Item 3: Treasurer's Report:** Treasurer reported a balance of \$25.68, pending reimbursing Chairman Ron Mayworm for \$89.20 in out-of-pocket expenses related to preparing materials for this meeting. Ron stated that we have received approval from NPSTC to be reimbursed up to \$300 in mailing expenses and \$88 in copying expenses for our meetings. An additional grant of \$2500 for meeting expenses will be tapped when we print and mail copies of the final draft of the 700 MHz Regional Plan to everyone on the Region 49 mailing list – approximately 400 pieces.

Larry Blare made motion to accept the Treasurer's report, seconded by Jim McLean, approved unanimously. Bill Blowers made motion to reimburse Ron's expenses, seconded by Larry Blare, approved unanimously.

**Item 4: Outreach Activities:** Discussion on requirement to broaden participation in reviewing and gathering support for the 700 MHz regional plan.

**Item 5: Update on Region 49 web site and list server:** Chuck Brotherton gave a brief update of items recently added to the web site.

**Item 6: Presentation, discussion, and possible action regarding the FCC's 9th Notice of Proposed Rule Making.** This notice proposes establishing a single, national public safety broadband licensee to

oversee build-out of a national public safety broadband network utilizing 12 MHz of the 700 MHz public safety spectrum.

The notice can be reviewed in its entirety at [http://hraunfoss.fcc.gov/edocs\\_public/attachmatch/FCC-06-181A1.pdf](http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-06-181A1.pdf)

The Chairman requested a motion to file comments from Region 49 with the FCC regarding this notice. No motion was made. The Chairman therefore urged all in attendance to review the notice and file their comments individually.

**Item 7:** **Review and discussion of the draft Region 49 700 MHz plan (dated 01-10-07):** (Full text with addenda may be found on the CAPRAD web site and on the R49 web site at [www.region49.org](http://www.region49.org).

- **Section 3.6, page 18:** Regarding the filing window, it was agreed that there should be 14 total filing windows, in successive 6-month periods, for a total filing period of 7 (seven) years.

- **Section 7.4, page 25:** Change "dispute resolution" to "appeals" process, where this section refers to Section 2.4.

- **Section 8.2, page 27:** Discussion of naming interoperability channels. Ron mentions that naming conventions will be discussed at the upcoming NPTSC meeting on Feb. 5, 2007. (Ron chairs the NPSTC subcommittee in charge of "common nomenclature.") Therefore, section 8.2 will be rewritten to follow the NPSTC guidelines, once they're set.

**Item 8:** **Old business:** None.

**Item 9:** **New business:** None.

**Item 10:** **Receive public comment:** None.

**Item 11:** **Adjourn:** Meeting adjourned by general consent at 12:05 p.m.

Region 49  
700 MHz Regional Planning Committee  
Minutes of the January 24, 2008, conference call

Meeting called to discuss the FCC allotment survey mailed to the RPC's on January 7, 2008, with a response due by January 31, 2008. Notice was sent by email to all who had attended a 700 MHz planning meeting in the past 3 years.

Chairman Ron Mayworm called the meeting to order at 10:04 a.m. The following members and guests were present via telephone conference bridge:

Ron Mayworm, Chair, City of Bryan	
Chuck Brotherton, Travis County	
Bill Blowers, Bell County	
James Benton, Texas DPS	
Larry Blare, City of Waco	
Elizabeth Lindemann, City of Austin	
Arletha Guerrero, City of Austin	

**Item 1: Introductions, review agenda.**

**Item 2: Review and discussion of the FCC allotment survey:** Due to the tight deadline for responding to the survey (fewer than 30 days between receipt and required response), there was no time to call a formal meeting of the committee, therefore this phone conference was the best available means for getting the committee together.

Chairman Mayworm reviewed the survey. Syracuse Research Corporation, under contract to repack the CAPRAD database frequency allotments nationwide, has asked each region to decide how its allotment of 700 MHz frequencies should be repacked. Options are to go with the "default" sort, which would allot 700 MHz channels in 4-channel, 25 KHz blocks with 250 KHz combiner separation, or to repack the allotment in 12.5 KHz ("narrowband") blocks at the same or tighter spacing. Regions also have the option of varying their allotments by each "county-like entity" within the region depending upon need.

Chairman Mayworm stated that narrower channel packing would deliver more usable frequencies and provide for greater spectrum efficiency. He also noted that Cellwave is now delivering combiners capable of 150 KHz separation.

It was noted that the default, 25 KHz packing would tend to create more unusable "orphan" channels in regions with P25 systems optimized for narrowband frequencies. For example, at 25 KHz, Austin-Travis County would receive 22 channels it would then have to break out into narrowband frequencies for its P25 system. Some would not be usable. A

12.5 KHz sort, on the other hand, would provide 44 distinct channels that could be coordinated for maximum efficiency.

It was also noted that, under the new Statewide Communications Interoperability Plan, all grant funds allocated for interoperable communications are to be spent on P25 infrastructure and subscriber units. Therefore, to maximize spectrum efficiency and provide the greatest number of usable channels, it might make sense for most regions to opt for the 12.5 KHz packing.

Bill Blowers noted that Bell County is considering a M/ACom "Open Sky" system, which requires 25 KHz channels, so he would prefer the default channel plan.

It was then determined that, by chance, each of the four Councils of Governments in Region 49 were represented on the conference call. Chuck Brotherton stated that he felt comfortable speaking for the CAPCOG region in requesting a 12.5 KHz allotment at 150 KHz separation; Larry Blare requested the same for HOTCOG; Ron Mayworm did likewise for BVCOG. Bill Blowers elected to go with 25 KHz / 250 KHz for CTCOG.

Chairman Mayworm stated that he would complete the survey to reflect these choices and return it before the January 31st deadline.

**Item 4:** **Other Business:** There was brief discussion of 800 MHz rebanding and recent efforts by the Transition Administrator to schedule a regional planning meeting prior to the date established for Wave 2 submissions of waiver requests, which is March 17, 2008.

Larry Blare recommended that everyone review the latest changes (1/22/08 revision) to the Statewide Interoperability Channel Plan, available at the TSIEC web site at <http://tsiec.region49.org/MOU+TSICP01-22-08.pdf>.

Chairman Mayworm stated that the CAPRAD resort will be available in February or March, and that a revised Region 49 700 MHz plan will be available for review shortly thereafter. A formal meeting of the Region 49 700 MHz Planning Committee will then be called to review and approve the regional plan.

**Item 4:** **Adjourn:** Meeting adjourned at 10:35 a.m.

**NOTE:** This meeting utilized a telephone conference bridge, toll-free dial-in number (877) 807-5706, ID number 173380.

Attachments: "Conf\_Call\_Announcement\_email\_1-18-08.pdf"  
"RCC\_Analysis\_CAPRAD\_Resort\_1-11-2008.pdf"  
"RPC49\_AllotmentSurveyRESPONSE\_01-28-08.pdf"

**From:** Charles Brotherton  
**To:** Charles Brotherton; Region 49 700 MHz RPC  
**Date:** 1/24/2008  
**Time:** 10:00 AM - 11:00 AM  
**Subject:** URGENT: Region 49 700 MHZ RPC Phone Conference  
**Place:** Phone Bridge: (877) 807-5706, Conference ID 173380  
**Attachments:** RPC49\_AllotmentSurvey.doc; CAPRAD Resort 1-11-2008.doc

The FCC has requested an immediate response from each planning region to the survey attached here, "RPC49 Allotment Survey." The response deadline is January 31st. A meeting of the Region 49 700 MHZ planning committee therefore is set for this coming Thursday, January 24th, from 10 a.m. to 11 a.m. CST (1 hour).

**This meeting will be by telephone conference only. To join the conference, dial (877) 807-5706 and enter conference ID number 173380.**

Prior to this telephone conference, please review the attached documents. During the meeting, we will discuss regional needs related to the 700 MHZ CAPRAD re-sort. Our goal for this meeting is to reach consensus for the region's response to the FCC survey. We have to consider whether to go with the "default" new CAPRAD sort, which will allot 700 MHZ frequencies in 4-channel, 25 KHz blocks with 250 KHz combiner separation, or to recommend 12.5 KHz allotments at the same, or tighter, spacing.

Two documents are attached: "RPC49\_AllotmentSurvey.doc" and "CAPRAD Resort 1-11-08.doc." Please review these documents and contact me or Region 49 Chairman Ron Mayworm ([rmayworm@bryantx.gov](mailto:rmayworm@bryantx.gov)) with any questions you have prior to the telephone conference.

Thank you.  
Chuck

**Chuck Brotherton**  
Emergency & Wireless Communications Manager  
Travis County Emergency Services

**Contact info:**  
desk (512) 854-4895  
cell (512) 636-6825  
pager (512) 935-0007  
fax (512) 854-4786  
[Charles.Brotherton@co.travis.tx.us](mailto:Charles.Brotherton@co.travis.tx.us)

**Mailing address:**  
PO Box 1748  
Austin, TX 78767  
**Street address:**  
5501 Airport Blvd., Ste. 203  
Austin, TX 78751-1410

In July of 2007, the FCC ordered a new 700 MHz band plan for public safety that established revised channel frequencies. Before this change, the 700 MHz public safety frequencies had been separated into 3 MHz blocks. The new FCC-ordered 700 MHz band plan combined frequencies into contiguous channel blocks.

When the FCC established the original 700 MHz band plan for public safety, a database tool, the Computer Assisted Pre-Coordination Resource and Database System, also known as CAPRAD, performed an initial nationwide assignment of channels. The role of the Regional Planning Committees was very limited in the initial CAPRAD channel assignments.

A new CAPRAD sortation of 700 MHz “General”<sup>1</sup> channels is about to be performed. Each Regional Planning Committee (RPC) Chairperson has been sent a listing of geographical areas within their RPC. Based upon the individual geographical areas within each RPC, the Chairs may assign certain channel sortation criterion as depicted in an example below in Figure 1.

County Name	Channel Block Size	Combiner Separation	Capacity Option
District of Columbia, DC	25 kHz	250 kHz ±	Minimum allotment
Allegany County, MD	12.5 kHz	0 kHz	Population model
Anne Arundel County, MD	25 kHz	25 kHz	Population model
Baltimore County, MD	12.5 kHz	50 kHz	Population model
Baltimore City, MD	25 kHz	75 kHz	Population model
Calvert County, MD	12.5 kHz	100 kHz	Population model
Caroline County, MD	25 kHz	125 kHz	Population model
Carroll County, MD	25 kHz	150 kHz	Population model
Cecil County, MD	25 kHz	175 kHz	Population model
Charles County, MD	25 kHz	200 kHz	Population model
Dorchester County, MD	25 kHz	225 kHz	Population model
Frederick County, MD	25 kHz	250 kHz	Population model

FIGURE 1 – EXAMPLE OF SORTATION CRITERION

**It is very important to note that there is a short turn-around period for this sortation data.**

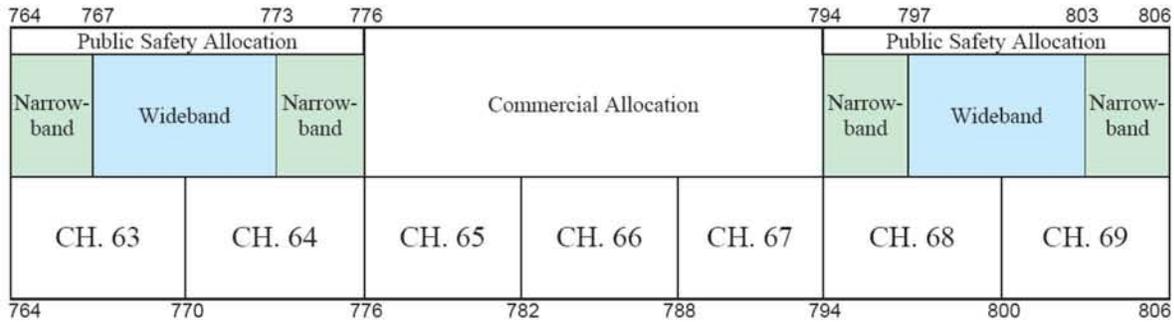
RPC Chairpersons must specify the sortation criterion for each geographical area and return the data to the CAPRAD managers by January 31, 2008. If the sortation criterion is not modified by the deadline, the new 700 MHz channel sortation for the geographical areas will be based upon the original default values used for the first sort; channel block sizes of 25 KHz with contiguous assignments separated by at least 250 KHz. The population model will also be used.

If you wish that the 700 MHz sortation criterion be changed from the default values, please return this email as quickly as possible and before January 29, 2008 to the RPC Chairperson specifying the desired “Channel Block Size”, “Combiner Separation”, and “Capacity Option” for your geographical area. If you require additional information to assist in the understanding of the CAPRAD sortation criterion, please see the following pages.

<sup>1</sup> See 47 CFR §90.531(b)(6)

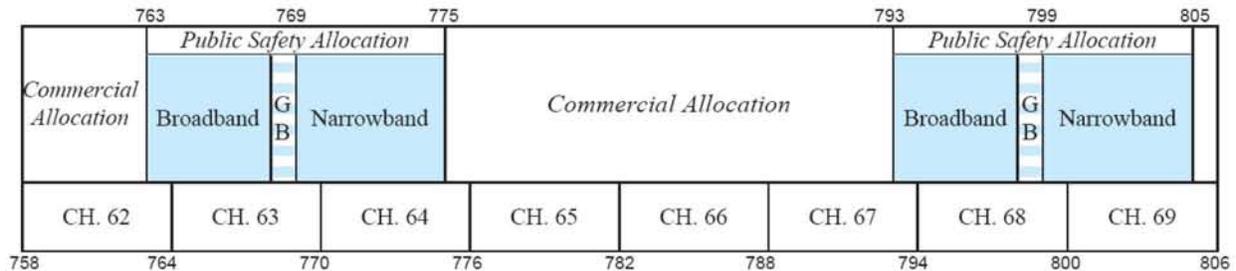
## Background

As indicated on the preceding page, the FCC ordered a new 700 MHz band plan for public safety as part of the Second Report and Order<sup>2</sup>. The old and new band plans are depicted below in Figures 2 and 3.



Narrowband Channels  
 Wideband Channels – General Use, Reserve, Interoperability

**FIGURE 2 - ORIGINAL 700 MHZ BAND PLAN**



**FIGURE 3 - REVISED 700 MHZ BAND PLAN**

CAPRAD originally used a number of factors to assign the maximum number of General<sup>3</sup> channels to geographical areas while simultaneously providing co-channel and adjacent channel interference protection. The criterion used in the original CAPRAD sort of 700 MHz was based upon assignments in four (4) consecutive blocks of 6.25 KHz channels with the blocks separated by at least 250 KHz. Based upon these engineering factors as well as the population of the geographical area, generally defined as a county, CAPRAD attempted to assign the maximum number of channels available. This criterion was adopted as a strategy to be “technology neutral”.

From a background perspective, the FCC established the 700 MHz frequency band with an acute sense of spectrum management. As such, the Commission’s vision seems to favor digital multi-user trunked radio systems that promote interoperability and efficient spectrum management. From the perspective of the U.S. Department of Homeland Security (DHS), adoption of the P-25

<sup>2</sup> See FCC 07-132 Released July 31, 2007 and published August 10, 2007

<sup>3</sup> CAPRAD’s General Pool channel assignments do not relate to State channels as defined in 47 CFR §90.531(b)(5)

standard is encouraged to promote the rudimentary interoperability of public safety products produced by different equipment manufacturers.

### **Deciding Sortation Criterion**

In deciding the CAPRAD 700 MHz sortation criterion for the geographical area, the initial factor to be considered relates to fundamental questions.

*Is this a planning exercise for a future system?*

*Does the jurisdiction have a technology defined as part of a Plan or specified by a RFP or actual vendor contract?*

If the latter and the user has a contract with an equipment vendor, the user's consultant and/or vendor should be consulted to assist in the identification of the geographic sortation criterion. Conversely, if the channels may be used in the future for an undefined technology, the factors discussed below may be of value to the user.

Regardless of application or channel block size, it is critical that the geographical area understand the 700 MHz spectrum efficiency requirements of the FCC found in 47 CFR § 90.535. Those requirements are provided on the following pages.

### **Channel Block Size – 12.5 KHz (two 6.25 KHz channel pairs)**

The DHS encourages the use of the P-25 standard. P-25 systems require 12.5 KHz frequencies. In P-25 Phase I, the 12.5 KHz frequency utilizes Frequency Division Multiple Access (FDMA) to achieve one (1) talkpath. In Phase II, the 12.5 KHz frequency will use Time Division Multiple Access (TDMA) and support two (2) talk paths.

Today, all of the major manufacturers of land mobile radio equipment support the P-25 standard. Motorola's current P-25 system is called ASTRO25® while M/A-COM offers its P-25 product under the name of P25<sup>IP</sup>®. Other equipment manufacturers sell mobile and portable radios that support the P-25 standard.

From the perspective of a RPC, 12.5 KHz frequencies (two channels) potentially result in a greater number of assignments without the need to manage "orphaned" channels.

### **Channel Block Size – 25 KHz (four 6.25 KHz channel pairs)**

If the user has not made a technology decision for the future, some would recommend that 25 KHz channel blocks should be maintained for a geographical region as the default value to provide the greatest level of flexibility in the future. Through the assignment of 25 KHz blocks, P-25 systems can still be supported; however, the RPC has to deal with the issue of the remaining two unused channels also known as "orphaned" channels. The "orphaned" channels can be potentially reused in the RPC provided that adjacent channel interference does not result. Depending upon the location of the reassignment, it may be necessary to formally amend the

RPC Plan for 700 MHz and coordinate the plan's channel assignment revisions with the adjoining RPC's before re-filing the Plan with the FCC.

In addition to P-25, a 25 KHz channel block would permit the use of a wideband land mobile radio system that supports the goal of spectrum efficiency mandated by the FCC. An example of such a system is M/A-COM's OpenSky® technology that uses TDMA and permits four simultaneous talkpaths on a 25 KHz operating frequency.

From the perspective of data, a 25 KHz channel block also permits a rudimentary amount of bandwidth for data. To meet the efficiency requirements of the FCC, the channel must provide a minimum of 19.2 kbps. This may be helpful in situations where broadband capability is nonexistent or cost prohibitive.

25 KHz channel blocks are the default setting for Channel Block Size.

### **Combiner Separation**

Through the selection of combiner separation requirements, a user may impact the number of channels assigned to a geographic area by CAPRAD. Again, if a user has a system under contract with a manufacturer, the user should consult with the vendor representative or project consultant for advice.

In a "simulcast" system, most vendors will request 250 KHz of separation as a strategy to minimize the cost of a combiner. In reality, some combiners can support more densely packed channels; however, the signal losses may be somewhat higher as well as the cost of the product. In a large system, multiple combiners may be used and through careful planning, smaller separation requirements may be possible even with the use of "standard" 250 KHz combiners.

Channel spacing of 250 kHz allows the use of a single combiner when all of the channels in a geographic area are licensed and used at the same site. When the channels are used by different licensees, this wide spacing doesn't provide any advantage. Even if all channels are used at the same site, reducing the spacing to 125 kHz may require two combiners, which is common in large systems anyway to provide antenna redundancy.

In a multicast system, the separation between channels may not be as critical. With tighter combiner spacing, the geographical area should receive a greater number of channel blocks.

250 KHz of combiner separation is the default value.

### **Capacity Option**

Geographical areas may also receive channel blocks based upon the "Capacity Option" selected. The population model provides the greatest number of channel blocks while the "Minimum Allotment" method does not.

The default setting is Population Model.

#### **47 CFR § 90.535 Modulation and spectrum usage efficiency requirements**

Transmitters designed to operate in 769–775 MHz and 799–805 MHz frequency bands must meet the following modulation standards:

(a) All transmitters in the 769-775 MHz and 799-805 MHz frequency bands must use digital modulation. Mobile and portable transmitters may have analog modulation capability only as a secondary mode in addition to its primary digital mode. Mobile and portable transmitters that only operate on the low power channels designated in §§ 90.531(b)(3), 90.531(b)(4), are exempt from this digital modulation requirement.

(b) Transmitters designed to operate in the narrowband segment using digital modulation must be capable of maintaining a minimum data (nonvoice) rate of 4.8 kbps per 6.25 kHz of bandwidth.

(c) Transmitters designed to operate in the wideband segment using digital modulation must be capable of maintaining a minimum data (non-voice) rate of 384 kbps per 150 kHz of bandwidth.

(d) The following provisions apply to licensees operating in the channels designated in §§ 90.531(b)(5) or 90.531(b)(6).

(1) With the exception of licensees designated in paragraph (d)(2) of this section, after December 31, 2014, licensees may only operate in voice mode in these channels at a voice efficiency of at least one voice path per 6.25 kHz of spectrum bandwidth.

(2) Licensees authorized to operate systems in the voice mode on these channels from applications filed on or before December 31, 2014, may continue operating in voice mode on these channels (including modification applications of such licenses granted after December 31, 2014, for expansion or maintenance of such systems) at a voice efficiency of at least one voice path per 12.5 kHz of spectrum bandwidth until December 31, 2016.

(3) The licensees designated in paragraph (d)(2) of this section must, no later than January 31, 2017, file a declaration through the Universal Licensing System that they are operating these channels at a voice efficiency of at least one voice path per 6.25 kHz of spectrum bandwidth.

Region 49 Regional Planning Committee  
Ronald G. Mayworm  
City of Bryan, Texas  
P.O. Box 1585, Bryan, TX 77805-1585  
January 7, 2007

Mr./Ms. Chairman,

In 2001, National Pool allotments were generated for the 700 MHz public safety general use spectrum allocation provided by the Federal Communications Commission (FCC) as a result of Docket 96-86. The documentation structure, as well as all techniques utilized for estimation of capacity needs, coverage and interference modeling, and other technical factors were presented, vetted, and agreed to by the national public safety community through the National Coordination Committee (NCC) and APCO National Plan Committees. The allotments were placed into the Computer Assisted Pre-Coordination Resource and Database System (CAPRAD) by early 2003, where they have served as the basis for nearly all of the 700 MHz Regional Plans in the United States, both submitted and under development.

In their SECOND REPORT AND ORDER (Adopted: July 31, 2007, Released: August 10, 2007), the FCC reconfigured the 700 MHz band, placing previously block-interleaved narrowband and broadband allocations into contiguous blocks in order to facilitate development and deployment of a National Broadband public safety network topology. The new band configuration mandated by this order adversely impacted the narrowband voice allotments in CAPRAD, causing constraint violations to 643 counties (about 20% of the counties within the US).

At a National Regional Planning Committee meeting in Texas in September 2007, it was decided that the best mitigation approach would be to repack the entire set of pool allotments and reset them within CAPRAD, rather than attempt to fix violations at the local level. Repacking the allotments would allow the RPCs to deal immediately with the newly configured band, as they did when the initial allotment pool was loaded into CAPRAD in 2003. In addition, the RPCs decided that a much more effective set of pool allotments could be developed by utilizing additional information not available at the time of the initial allotment generation. Syracuse Research Corporation has been contracted by the Sheriff's Association of Texas to accomplish the repacking effort.

The attached form is provided for collection of individual RPC and county information pertaining to local requirements and intended spectrum utilization. Each row identifies a county-like entity to receive pool allotments and provides channel-width and minimum antenna system combiner-separation options, with default values of 25-kHz and 250-kHz respectively. Each cell in the form is a drop-down list when this document is opened in Microsoft Word. Options may be selected by choosing from the drop-down lists and then

saving changes to the document. If system technology and spectrum use requirements are known and stable, specifying channel-width and minimum combiner-separation lower than the default values would contribute to spectral efficiency (avoiding wasted or unusable “orphan” channels) and allow tighter frequency packing within your Region, which may provide the opportunity for higher capacity pool allotments. If technology and spectrum use requirements are unknown or likely to change, the default values are recommended.

In addition, each county-like entity may specify that pool allotments reflect either the population-modeled capacity or the minimum capacity. The minimum capacity option generates a pool no larger than the nation-wide county minimum, and is given to accommodate counties or regions that either plan to independently pack their own pool allotments, or do not currently intend to implement 700 MHz narrowband technology.

All Regions are invited to participate in a WebEx Conference Call to be held on Monday, January 14 at 3:00 PM EST. During this call, moderators representing Syracuse Research Corporation, the National Regional Planning Executive Committee, and Texas Sheriffs’ Association will be on hand to present information regarding the CAPRAD re-packing process and RPC input form, and to answer questions from the RPC’s. It is anticipated that weekly conference calls will be held following this initial meeting to assist the RPC’s with further questions. Dial-in information for the January 14 call will be forthcoming.

Please determine channel-width, combiner separation, and allotment capacity requirements for each county-like entity in your RPC, and return the attached form form and letter (with your choices selected and saved as described above) to Ms. Karla Jurrens at [karla@txsheriffs.org](mailto:karla@txsheriffs.org) by 5:00 PM EST on January 31, 2008.

In the case that the attached form is not received by 5:00 PM EST on January 31, 2008, all county-like entity requirements for your RPC will assume default values of 25-kHz channel-width, 250-kHz combiner-separation, and population-modeled capacity, as used in the original pool allotments.

Sincerely,  
Margaret Daly, Systems Engineer and Program Manager  
Syracuse Research Corporation  
[mdaly@syres.com](mailto:mdaly@syres.com)  
c/o National Regional Planning Committee

<b>County Name</b>	<b>Channel Block Size</b>	<b>Combiner Separation</b>	<b>Capacity Option</b>
Bastrop County, TX	12.5 kHz	150 kHz	Population model
Bell County, TX	25 kHz	250 kHz	Population model
Blanco County, TX	12.5 kHz	150 kHz	Population model
Bosque County, TX	12.5 kHz	150 kHz	Population model
Brazos County, TX	12.5 kHz	150 kHz	Population model
Burleson County, TX	12.5 kHz	150 kHz	Population model
Burnet County, TX	12.5 kHz	150 kHz	Population model
Caldwell County, TX	12.5 kHz	150 kHz	Population model
Coryell County, TX	25 kHz	250 kHz	Population model
Falls County, TX	12.5 kHz	150 kHz	Population model
Fayette County, TX	12.5 kHz	150 kHz	Population model
Freestone County, TX	12.5 kHz	150 kHz	Population model
Grimes County, TX	12.5 kHz	150 kHz	Population model
Hamilton County, TX	25 kHz	250 kHz	Population model
Hays County, TX	12.5 kHz	150 kHz	Population model
Hill County, TX	12.5 kHz	150 kHz	Population model
Lampasas County, TX	25 kHz	250 kHz	Population model
Lee County, TX	12.5 kHz	150 kHz	Population model
Leon County, TX	12.5 kHz	150 kHz	Population model
Limestone County, TX	12.5 kHz	150 kHz	Population model
Llano County, TX	12.5 kHz	150 kHz	Population model
Madison County, TX	12.5 kHz	150 kHz	Population model
McLennan County, TX	12.5 kHz	150 kHz	Population model
Milam County, TX	25 kHz	250 kHz	Population model
Mills County, TX	25 kHz	250 kHz	Population model
Robertson County, TX	12.5 kHz	150 kHz	Population model
San Saba County, TX	25 kHz	250 kHz	Population model
Travis County, TX	12.5 kHz	150 kHz	Population model
Washington County, TX	12.5 kHz	150 kHz	Population model
Williamson County, TX	12.5 kHz	150 kHz	Population model

Region 49  
700 MHz Regional Planning Committee  
Minutes of the April 9, 2010, meeting

City of Austin Learning and Research Center  
2800 Spirit of Texas Drive, Austin, Texas

Chairman Ron Mayworm called the meeting to order at 9:37 a.m. The following members and guests were present:

Rickey Lattie, Texas State Univ.
John Guerra, Texas State Univ.
Ken Yoder, Texas APCO
Bill Blowers, Bell County
Dalton Cross, Bell County
Glenn Shoemaker, Bell County
Brad Bearden, Texas DPS
Bette Rinehart, Motorola
David Childress, City of San Marcos
Saul Silva, LCRA
Delynn Peschke, Lee County EMC
Clay Cassard, Motorola
Chuck Brotherton, City of Austin
Aaron Slaughter, City of Lockhart
Lester Bashaw, Brazos Valley COG

Ron Mayworm, Brazos Valley COG
Larry Blare, City of Waco
Arletha Guerrero, City of Austin
Pat Worsham, Alexander Utility Eng.
Jim Parker, Caldwell County EMC
Tom Bonn, Caldwell County
Karla Jurens, Texas DPS
Paul Gilbert, Texas DOT
Elizabeth Lindemann, City of Austin
Jason Ervin, LCRA
Robert Stluka, Harris Corp.
Perry Moose, Bell County S.O.
Robert Campbell, Texas State Univ.
Archie Hollingsworth, Burnet Co. S.O.
Peter Hicks, Bastrop County

- Item 1: Introductions, quorum determination, review and approve agenda.**
- Item 2: Review and approve minutes of the January 18, 2007 meeting, and the January 24, 2008 Conference Call:**  
 - Approve 1/18/07 minutes: Motion by Ken Yoder, second by Jim Parker, unanimous approval.  
 - Approve 1/24/08 minutes: Motion by Larry Blare, second by Rob Campbell, unanimous approval.
- Item 3: Treasurer's Report:** No funds are available
- Item 4: Outreach Activities:** Update on NRPC meeting held in Tampa, FL in March. CAPRAD database enhancements were discussed; the need to work across regional boundaries, and to improve user interface.
- Item 5: Region 49 700 MHz Plan Approval:** Ron Mayworm provided a brief history of the development of the Region 49 700 MHz plan. A show of hands vote was held to only review the proposed changes to the draft plan presented previously, versus a section-by-section review.

Changes Discussed:

Section 2.3- Operations of the Regional Planning Committee: The need to align the meeting schedule with application filing windows, for a total of

14 meetings. The plan will call for one meeting every 6 months, over a 7 year period. The meeting schedule can be extended if necessary.

Section 2.4- Dispute Resolution: The process for dispute resolution was streamlined, and a diagram to be attached to the plan was developed. Motion to accept by: Rob Campbell, second by many, unanimous approval

Section 2.6- Future Planning: Change the title of this section to “Plan Amendments”. Approved by consensus.

Section 3.6- Procedure for Requesting Channel Assignments: Align the number of meetings scheduled to coincide with Section 2.3.

**Accept Changes and Approve the Region 49 700 MHz Plan:** Motion by Tom Bonn, second by Peter Hicks; unanimous approval.

**Item 6:** **Old business:** Larry Blare, City of Waco announced that an application for NPSPAC channels has been submitted to the FCC.

**Item 7:** **New business:** Region 49 accepted the resignation of Secretary Chuck Brotherton. He was commended for his service, and efforts to complete the Region 49 planning process. A recommendation was made to nominate Karla Jurrens from the Texas Department of Public Safety to fill the position of Secretary. Motion by Rob Campbell, second by Aaron Slaughter; unanimous approval.

**Item 8:** **Receive public comment:** None.

**Item 9:** **Adjourn:** Following a motion and second, the meeting adjourned at 12:10 p.m.