RPC 700 MHz Mtg.
10-12-04
At Mn/DOT Arden Hills facility

Attendees: Tim Harper, Motorola; Ken Southorn, Eagan PD; Randy Frailing, Region 45 City of Green Bay; Andy Terry, Mn/ DOT; Steve Pott, Washington CO SO; Roger Kochevar Mn/DOT; Bob Heidbrink, MA/Com; Greg Coleman, MA/Com; Bob Speidel, MA/Com; Michele Tuchner, State Patrol.

Video conferencing in place, no attendees via video conference.

1006 mtg. called to order.

Minutes reviewed, Andy Terry moved to accept, Ken Southhorn seconded.

Treasurer's report - same balance as before. Pott will be going to the 700 MHz colloquium in Denver at the end of the month. The colloquium is free, but travel expenses will be paid out of the fund balance.

Pott offered if any other board members were interested in attending. Possibly Ken Southorn, they will discuss off-line. Dates are Oct 25-27. Note: it was too late to register any additional attendees.

Pott made CDs of the plan and distributed to the 4 adjacent regions, it's also out on CAPRAD, including attachments. He did not include addendums they are already on CAPRAD.

Here to review comments on the plan, Pott only received one set of comments from Roger Laurence at Hennepin County.

Roger's comments have fairly minor changes; the one that could have the biggest impact is the first one. Roger suggests that Michigan is an adjacent region. Pott- should we include it or leave it out? It's not listed in the CAPRAD plan as an adjacent. It would require concurrence for our plan approval process. If we feel there will be issues, then we should get it out there now. Andy feels there is enough physical separation, that it should not be an issue. Pott- we acknowledge the lake area already (Superior).

Pott- moved, Andy seconded, to leave it out.

Leave in the language about Hennepin County (see underline text in handout) Reviewed rest of underlined text. All o.k. to leave in will clarify with Roger the 3 additional VHF repeater channels (Pott will check with Roger)

Discussed Roger's language change from PSAP to 'eligible entity' do we want for example a school bus company to hold the same level of rights as say a PSAP to apply for these unused frequencies?

Handout circulated, produced by Roger Kochevar, about getting more specific about the request/appeal process.

Roger Kochevar, took the process that the National coordinating committee used and he has set up a 'scoring' system, for our application process, with 7 scoring categories,

1) service, higher score for like police service
2) interoperability-
3) loading
4) Spectrum efficient technology
5) System Implementation Factors
6) Geographic Efficient
7) Givebacks

Discussed the scoring system, and what is fair. Reviewed and discussed language. Reviewed language in Wisconsin's plan.

Andy asked does it (Wisconsin's) have an application window, I think it's first come, first served. Randy didn't think they had a window.

Pott is fine with the way Roger has it worded except for the part about service.

Add language from Wisconsin's region 45 and add, "Consideration will be given to the population served by the entity".

Andy do we want to use the WI language that says we go to this if there is a conflict, or as part of our process? Discussion ensued.

Pott, I think it would be an easier process for the RPC, if we evaluate it on an annual basis. Rather than try to guess if another application is in the wind. What kind of window would we like to set Jan-Feb is the filing window for each year for 700 MHZ. Only for general use, or include the data channels, All 700 MHz, under our authority.

Reviewed the rest of Roger's comments, underlined text, 5.5 paragraph 2, and o.k.
Paragraph 3, ok. Announcement that frequencies are available.

5.7 changed "subject to the timetable set in 5.5" this o.k. also.

Other than Roger's first change about Michigan, we really don't have any issue with his language changes.

Roger Kochevar, Roger Laurence sent some comments to him. Roger L. suggested, In section 3, include these federal frequencies. (see handout 4-2333). Bob Speidel recommended it be left out, and just focus on the 700 MHz. This may only confuse the FCC. Pott- asked why Roger suggested adding these channels. Pott-asked are these only for interop? Yes, so do we really need to use them? Roger K. said we put some of this in, so that this plan can be used by our own people as a reference guide as well. By adding it, those reviewing the plan can see that there is another possibility with these channels. Cleaner to just leave them out, and just put a sentence in about other frequencies available for use, and not specifically list them. Decided to leave it the way it is and not add any additional language on this point.

Roger advised that he proofed it, and made small language clean up. Barring any last minute comments, but if there are no others, we are going to move ahead to submit the plan.

Pott asked if Randy had any comments to add. Randy asked is it on CAPRAD now? Yes, and a copy was sent to Karen on disk. Randy- status of our approval of your plan, and additionally, looking for your approval of our (WI) plan. Still need to get concurrence of adjacent regions, ND & SD, will be more difficult as they do not appear to have a Committee working on a plan. Were on hold until ND & SD, can approve our plan.

Tuchner moved, Andy seconded the approval of the plan, with the additional changes noted today. Voted, passed. As soon as we can get concurrence from the adjacent regions, we will forward to the FCC.

Pott -Region 45's plan a lot of boiler plate but there are some differences, dispute resolution, allocation of data channels, Roger and Pott looked at it, they discussed it, and they/we don't have any issues with it, we can do one of two things, we can give concurrence today, or send it out for 30 days, to the membership, for review and if no more comments, we will approve it.

Andy motioned, Pott seconded that it be sent out for review for 30 days, and if no objections, the Committee will motion to approve. Voted and approved.

Pott- info will be sent to all on where/how to receive copy of Region 45 plan for review.

700 MHz portion of meeting adjourned 1120 hrs.

Bob Speidel gave presentation on application process for 4.9 GHz.

Meeting adjourned at 1240 hours.

Attachment 5

Attachment 5

January 6, 2004

Joseph B. Day, Executive Director
Minnesota Indian Affairs Council
3801 Bemidji Ave., Suite 5
Bemidji, MN 56601

Dear Mr. Day:

Several years ago, the Federal Communications Commission (FCC) released additional radio frequencies in the 700 MHz band for use by public safety entities. These frequencies became available following the re-allocation of television channels 60 to 69. This allocation is said to be the largest ever single allocation for public safety.

The FCC directed the Chairman of the 800 MHz NPSPAC committee to schedule an initial meeting of a Regional Planning Committee (RPC), to establish a plan for allocation and use of these new frequencies. Notices for the meeting were published more than 60 days in advance of the meeting in several venues such as the APCO public safety magazine, the Federal Register, the Minneapolis Star and Tribune news paper. Notices were also distributed at the state APCO training conference and posted on the local chapter web site. Notices were also distributed using existing e-mail lists to parties involved in previous radio planning processes.

The initial meeting was held in January 2001, and despite the broad distribution of the notices, we had relatively low attendance. I was elected Chairman of the Region 22 RPC, (State of Minnesota). The committee has been meeting quarterly, and notices have primarily been distributed through e-mail following the initial meeting. The meetings have been held around the State, but more recently have been hosted in St. Paul at the Department of Transportation Central Office. The meetings have been available throughout the State using MnDOT's video-conferencing system. The meetings have not been well attended, and there seems to be little or no interest by most governmental entities throughout the State. We continue to press on with the process, and expect to complete a draft of the plan in the next few months.

One of the recipients of the e-mail notices has been the Minnesota Chiefs of Police organization. We asked that they distribute the notice to all of their members. Late in 2003 we learned that less than one half of the tribal police

departments in Minnesota are members of the Chiefs of Police organization, and assume they have not been made aware of the 700 MHz planning process. One of the requirements of the FCC is to make sure that the 700 MHz allocation plan addresses any needs identified by tribal public safety entities. We felt that your agency may be able to help distribute this information, and identify any needs that may exist.

A consulting firm was hired to prepare a model allocation plan for the entire country, and that was finally completed in 2003. The Region 22 committee feels that the national allocation model will best meet the needs throughout the State, and we don't currently have any plans to modify the allocation. With the exception of the twin cities metro area, most areas of the State will have adequate radio frequencies available for system development.

I would like to discuss the planning process with you, and determine the best way to determine if there are specific needs that the committee should address. I will try to make contact with you by phone yet this week. If I am unsuccessful, the next meeting of the RPC is Tuesday January 13, 2004 at 10:00 am. The "live" meeting will be held at the Mn/DOT Central Office in St. Paul, and will be also be available at the following Mn/DOT District Office video-conference locations:

Duluth	Virginia	Bemidji
Crookston	Detroit Lakes	Morris
Owatonna	Mankato	Windom
Willmar	Marshall	

I look forward to talking with you about the 700 MHz allocation, and expect that we will be able to address any problems or concerns that any of the tribal public safety entities may have.

Sincerely,

Steve Pott, Chairman

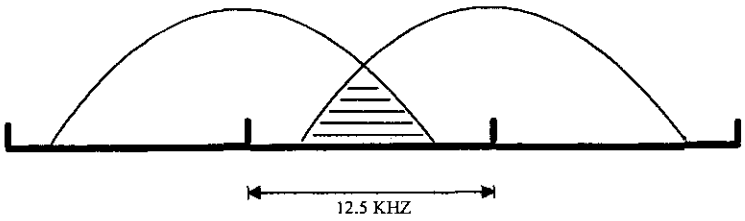
651-430-7615 (phone)
651-430-7603 (fax)
steve.pott@co.washington.mn.us

Attachment 6

Attachment 6

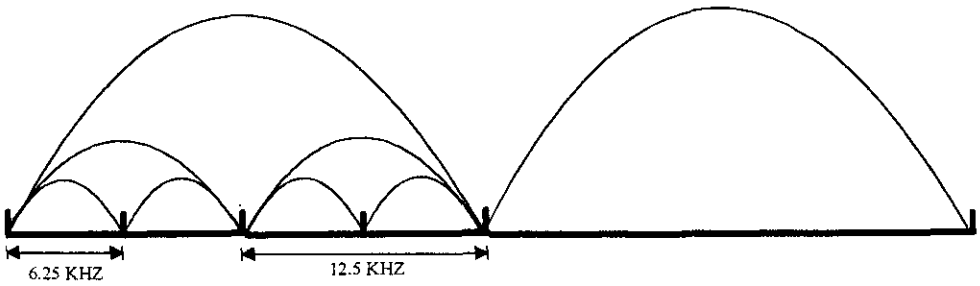
Comparison of 700 MHZ & 800MHZ NPSPAC Public Safety Channels.

Number of 800 NPSPAC channels:
For State channels 27
For Mutual Aide channels 8
For Guard channels 31
For Unassigned channels 24
For Assigned 140 channel and **3.5 MHZ** of spectrum
Total of 230 channels and 6 MHZ of spectrum



NPSPAC channels centers are 12.5 KHZ away from each other.

Number of 700 MHZ Public Safety Narrow-band (25kHZ) channels:
For State, 48 channels and 2.4 MHZ of spectrum
Mutual Aid 32 channels and .8MHZ of spectrum[Nationwide Interoperability]
For Assignment, 154 channels and **7.7 MHZ** of spectrum[General Use]



700MHZ channels centers and separation have not been finalized at this time.

Number of 700 MHZ Public Safety Wide-band(50kHZ) channels:
For Assignment, 48 channels and 4.8 MHZ of spectrum
For Nationwide Interoperability, 18 channels and 1.8 MHZ of spectrum
For Reserved, 54 channels and 5.4 MHZ of spectrum.

Attachment 7

Attachment 7

Region22 - Minnesota
Channel Allotments by Class
12/29/04
General Use-Voice 25KHz

County	Band	FCC Channel Number	Base Frequency	Mobile Frequency	Notation
Aitkin					
	25KHz	13-16	764.087500	794.087500	
	25KHz	165-168	765.037500	795.037500	
	25KHz	333-336	766.087500	796.087500	
	25KHz	381-384	766.387500	796.387500	
	25KHz	441-444	766.762500	796.762500	
	25KHz	489-492	773.062500	803.062500	
	25KHz	529-532	773.312500	803.312500	
	25KHz	605-608	773.787500	803.787500	
Anoka					
	25KHz	13-16	764.087500	794.087500	
	25KHz	97-100	764.612500	794.612500	
	25KHz	173-176	765.087500	795.087500	
	25KHz	253-256	765.587500	795.587500	
	25KHz	345-348	766.162500	796.162500	
	25KHz	413-416	766.587500	796.587500	
	25KHz	469-472	766.937500	796.937500	
	25KHz	501-504	773.137500	803.137500	
	25KHz	541-544	773.387500	803.387500	
	25KHz	629-632	773.937500	803.937500	
	25KHz	673-676	774.212500	804.212500	
	25KHz	757-760	774.737500	804.737500	
	25KHz	821-824	775.137500	805.137500	
Becker					
	25KHz	17-20	764.112500	794.112500	
	25KHz	57-60	764.362500	794.362500	
	25KHz	133-136	764.837500	794.837500	
	25KHz	285-288	765.787500	795.787500	
	25KHz	337-340	766.112500	796.112500	
	25KHz	381-384	766.387500	796.387500	
	25KHz	469-472	766.937500	796.937500	
	25KHz	549-552	773.437500	803.437500	
	25KHz	609-612	773.812500	803.812500	
	25KHz	713-716	774.462500	804.462500	
	25KHz	865-868	775.412500	805.412500	
	25KHz	941-944	775.887500	805.887500	
Beltrami					
	25KHz	13-16	764.087500	794.087500	
	25KHz	121-124	764.762500	794.762500	
	25KHz	161-164	765.012500	795.012500	
	25KHz	217-220	765.362500	795.362500	

25KHz	281-284	765.762500	795.762500
25KHz	341-344	766.137500	796.137500
25KHz	393-396	766.462500	796.462500
25KHz	453-456	766.837500	796.837500
25KHz	493-496	773.087500	803.087500
25KHz	533-536	773.337500	803.337500
25KHz	601-604	773.762500	803.762500
25KHz	677-680	774.237500	804.237500
25KHz	741-744	774.637500	804.637500
25KHz	821-824	775.137500	805.137500
25KHz	861-864	775.387500	805.387500
25KHz	917-920	775.737500	805.737500

Benton

25KHz	45-48	764.287500	794.287500
25KHz	89-92	764.562500	794.562500
25KHz	169-172	765.062500	795.062500
25KHz	209-212	765.312500	795.312500
25KHz	249-252	765.562500	795.562500
25KHz	321-324	766.012500	796.012500
25KHz	361-364	766.262500	796.262500
25KHz	401-404	766.512500	796.512500
25KHz	485-488	773.037500	803.037500
25KHz	561-564	773.512500	803.512500
25KHz	909-912	775.687500	805.687500

Big Stone

25KHz	217-220	765.362500	795.362500
25KHz	361-364	766.262500	796.262500
25KHz	437-440	766.737500	796.737500
25KHz	545-548	773.412500	803.412500
25KHz	589-592	773.687500	803.687500
25KHz	713-716	774.462500	804.462500
25KHz	825-828	775.162500	805.162500

Blue Earth

25KHz	45-48	764.287500	794.287500
25KHz	85-88	764.537500	794.537500
25KHz	133-136	764.837500	794.837500
25KHz	173-176	765.087500	795.087500
25KHz	293-296	765.837500	795.837500
25KHz	345-348	766.162500	796.162500
25KHz	385-388	766.412500	796.412500
25KHz	461-464	766.887500	796.887500
25KHz	501-504	773.137500	803.137500
25KHz	605-608	773.787500	803.787500
25KHz	701-704	774.387500	804.387500
25KHz	757-760	774.737500	804.737500
25KHz	821-824	775.137500	805.137500
25KHz	861-864	775.387500	805.387500
25KHz	901-904	775.637500	805.637500
25KHz	941-944	775.887500	805.887500

Brown

25KHz	93-96	764.587500	794.587500
25KHz	245-248	765.537500	795.537500
25KHz	321-324	766.012500	796.012500
25KHz	361-364	766.262500	796.262500
25KHz	409-412	766.562500	796.562500
25KHz	549-552	773.437500	803.437500
25KHz	597-600	773.737500	803.737500
25KHz	677-680	774.237500	804.237500
25KHz	717-720	774.487500	804.487500
25KHz	797-800	774.987500	804.987500
25KHz	869-872	775.437500	805.437500

Carlton

25KHz	89-92	764.562500	794.562500
25KHz	201-204	765.262500	795.262500
25KHz	241-244	765.512500	795.512500
25KHz	281-284	765.762500	795.762500
25KHz	321-324	766.012500	796.012500
25KHz	369-372	766.312500	796.312500
25KHz	425-428	766.662500	796.662500
25KHz	517-520	773.237500	803.237500
25KHz	561-564	773.512500	803.512500
25KHz	617-620	773.862500	803.862500
25KHz	717-720	774.487500	804.487500
25KHz	861-864	775.387500	805.387500

Carver

25KHz	89-92	764.562500	794.562500
25KHz	353-356	766.212500	796.212500
25KHz	433-436	766.712500	796.712500
25KHz	525-528	773.287500	803.287500
25KHz	581-584	773.637500	803.637500
25KHz	621-624	773.887500	803.887500
25KHz	825-828	775.162500	805.162500

Cass

25KHz	85-88	764.537500	794.537500
25KHz	137-140	764.862500	794.862500
25KHz	253-256	765.587500	795.587500
25KHz	293-296	765.837500	795.837500
25KHz	349-352	766.187500	796.187500
25KHz	417-420	766.612500	796.612500
25KHz	481-484	773.012500	803.012500
25KHz	545-548	773.412500	803.412500
25KHz	585-588	773.662500	803.662500
25KHz	637-640	773.987500	803.987500
25KHz	709-712	774.437500	804.437500
25KHz	785-788	774.912500	804.912500

Chippewa

25KHz	13-16	764.087500	794.087500
25KHz	81-84	764.512500	794.512500
25KHz	125-128	764.787500	794.787500
25KHz	165-168	765.037500	795.037500

	25KHz	205-208	765.287500	795.287500
	25KHz	325-328	766.037500	796.037500
	25KHz	405-408	766.537500	796.537500
	25KHz	477-480	766.987500	796.987500
	25KHz	485-488	773.037500	803.037500
	25KHz	577-580	773.612500	803.612500
	25KHz	637-640	773.987500	803.987500
	25KHz	837-840	775.237500	805.237500
Chisago				
	25KHz	161-164	765.012500	795.012500
	25KHz	297-300	765.862500	795.862500
	25KHz	337-340	766.112500	796.112500
	25KHz	397-400	766.487500	796.487500
	25KHz	445-448	766.787500	796.787500
	25KHz	557-560	773.487500	803.487500
	25KHz	601-604	773.762500	803.762500
	25KHz	873-876	775.462500	805.462500
Clay				
	25KHz	89-92	764.562500	794.562500
	25KHz	161-164	765.012500	795.012500
	25KHz	201-204	765.262500	795.262500
	25KHz	241-244	765.512500	795.512500
	25KHz	297-300	765.862500	795.862500
	25KHz	365-368	766.287500	796.287500
	25KHz	441-444	766.762500	796.762500
	25KHz	493-496	773.087500	803.087500
	25KHz	537-540	773.362500	803.362500
	25KHz	577-580	773.612500	803.612500
	25KHz	625-628	773.912500	803.912500
	25KHz	705-708	774.412500	804.412500
	25KHz	757-760	774.737500	804.737500
	25KHz	797-800	774.987500	804.987500
	25KHz	837-840	775.237500	805.237500
	25KHz	909-912	775.687500	805.687500
Clearwater				
	25KHz	49-52	764.312500	794.312500
	25KHz	97-100	764.612500	794.612500
	25KHz	329-332	766.062500	796.062500
	25KHz	437-440	766.737500	796.737500
	25KHz	557-560	773.487500	803.487500
	25KHz	781-784	774.887500	804.887500
Cook				
	25KHz	13-16	764.087500	794.087500
	25KHz	57-60	764.362500	794.362500
	25KHz	137-140	764.862500	794.862500
	25KHz	213-216	765.337500	795.337500
	25KHz	253-256	765.587500	795.587500
	25KHz	321-324	766.012500	796.012500
	25KHz	361-364	766.262500	796.262500
	25KHz	405-408	766.537500	796.537500
	25KHz	465-468	766.912500	796.912500

	25KHz	489-492	773.062500	803.062500
	25KHz	533-536	773.337500	803.337500
	25KHz	573-576	773.587500	803.587500
	25KHz	613-616	773.837500	803.837500
	25KHz	677-680	774.237500	804.237500
	25KHz	781-784	774.887500	804.887500
	25KHz	821-824	775.137500	805.137500
	25KHz	861-864	775.387500	805.387500
	25KHz	917-920	775.737500	805.737500
Cottonwood				
	25KHz	41-44	764.262500	794.262500
	25KHz	81-84	764.512500	794.512500
	25KHz	125-128	764.787500	794.787500
	25KHz	421-424	766.637500	796.637500
	25KHz	533-536	773.337500	803.337500
	25KHz	609-612	773.812500	803.812500
	25KHz	785-788	774.912500	804.912500
	25KHz	917-920	775.737500	805.737500
Crow Wing				
	25KHz	49-52	764.312500	794.312500
	25KHz	93-96	764.587500	794.587500
	25KHz	173-176	765.087500	795.087500
	25KHz	285-288	765.787500	795.787500
	25KHz	325-328	766.037500	796.037500
	25KHz	389-392	766.437500	796.437500
	25KHz	433-436	766.712500	796.712500
	25KHz	477-480	766.987500	796.987500
	25KHz	513-516	773.212500	803.212500
	25KHz	565-568	773.537500	803.537500
	25KHz	613-616	773.837500	803.837500
	25KHz	669-672	774.187500	804.187500
	25KHz	749-752	774.687500	804.687500
	25KHz	833-836	775.212500	805.212500
	25KHz	905-908	775.662500	805.662500
	25KHz	945-948	775.912500	805.912500
Dakota				
	25KHz	17-20	764.112500	794.112500
	25KHz	93-96	764.587500	794.587500
	25KHz	177-180	765.112500	795.112500
	25KHz	217-220	765.362500	795.362500
	25KHz	257-260	765.612500	795.612500
	25KHz	349-352	766.187500	796.187500
	25KHz	389-392	766.437500	796.437500
	25KHz	465-468	766.912500	796.912500
	25KHz	505-508	773.162500	803.162500
	25KHz	545-548	773.412500	803.412500
	25KHz	585-588	773.662500	803.662500
	25KHz	625-628	773.912500	803.912500
	25KHz	677-680	774.237500	804.237500
	25KHz	717-720	774.487500	804.487500
	25KHz	781-784	774.887500	804.887500
	25KHz	829-832	775.187500	805.187500

Dodge

25KHz	281-284	765.762500	795.762500
25KHz	353-356	766.212500	796.212500
25KHz	409-412	766.562500	796.562500
25KHz	537-540	773.362500	803.362500
25KHz	589-592	773.687500	803.687500
25KHz	917-920	775.737500	805.737500

Douglas

25KHz	93-96	764.587500	794.587500
25KHz	177-180	765.112500	795.112500
25KHz	249-252	765.562500	795.562500
25KHz	289-292	765.812500	795.812500
25KHz	345-348	766.162500	796.162500
25KHz	385-388	766.412500	796.412500
25KHz	429-432	766.687500	796.687500
25KHz	505-508	773.162500	803.162500
25KHz	553-556	773.462500	803.462500
25KHz	625-628	773.912500	803.912500
25KHz	837-840	775.237500	805.237500
25KHz	909-912	775.687500	805.687500

Faribault

25KHz	217-220	765.362500	795.362500
25KHz	325-328	766.037500	796.037500
25KHz	377-380	766.362500	796.362500
25KHz	453-456	766.837500	796.837500
25KHz	553-556	773.462500	803.462500
25KHz	613-616	773.837500	803.837500
25KHz	665-668	774.162500	804.162500
25KHz	749-752	774.687500	804.687500
25KHz	913-916	775.712500	805.712500

Fillmore

25KHz	89-92	764.562500	794.562500
25KHz	285-288	765.787500	795.787500
25KHz	345-348	766.162500	796.162500
25KHz	393-396	766.462500	796.462500
25KHz	449-452	766.812500	796.812500
25KHz	561-564	773.512500	803.512500
25KHz	633-636	773.962500	803.962500
25KHz	829-832	775.187500	805.187500
25KHz	913-916	775.712500	805.712500

Freeborn

25KHz	17-20	764.112500	794.112500
25KHz	93-96	764.587500	794.587500
25KHz	205-208	765.287500	795.287500
25KHz	257-260	765.612500	795.612500
25KHz	337-340	766.112500	796.112500
25KHz	397-400	766.487500	796.487500
25KHz	445-448	766.787500	796.787500
25KHz	597-600	773.737500	803.737500
25KHz	717-720	774.487500	804.487500
25KHz	833-836	775.212500	805.212500
25KHz	873-876	775.462500	805.462500

Goodhue

25KHz	161-164	765.012500	795.012500
25KHz	341-344	766.137500	796.137500
25KHz	429-432	766.687500	796.687500
25KHz	473-476	766.962500	796.962500
25KHz	565-568	773.537500	803.537500
25KHz	613-616	773.837500	803.837500
25KHz	665-668	774.162500	804.162500
25KHz	869-872	775.437500	805.437500

Grant

25KHz	13-16	764.087500	794.087500
25KHz	53-56	764.337500	794.337500
25KHz	413-416	766.587500	796.587500
25KHz	469-472	766.937500	796.937500
25KHz	541-544	773.387500	803.387500
25KHz	605-608	773.787500	803.787500
25KHz	709-712	774.437500	804.437500
25KHz	945-948	775.912500	805.912500

Hennepin

25KHz	49-52	764.312500	794.312500
25KHz	125-128	764.787500	794.787500
25KHz	165-168	765.037500	795.037500
25KHz	205-208	765.287500	795.287500
25KHz	245-248	765.537500	795.537500
25KHz	285-288	765.787500	795.787500
25KHz	325-328	766.037500	796.037500
25KHz	365-368	766.287500	796.287500
25KHz	421-424	766.637500	796.637500
25KHz	477-480	766.987500	796.987500
25KHz	481-484	773.012500	803.012500
25KHz	533-536	773.337500	803.337500
25KHz	597-600	773.737500	803.737500
25KHz	637-640	773.987500	803.987500
25KHz	709-712	774.437500	804.437500
25KHz	749-752	774.687500	804.687500
25KHz	797-800	774.987500	804.987500
25KHz	865-868	775.412500	805.412500
25KHz	905-908	775.662500	805.662500
25KHz	945-948	775.912500	805.912500

Houston

25KHz	217-220	765.362500	795.362500
25KHz	257-260	765.612500	795.612500
25KHz	353-356	766.212500	796.212500
25KHz	433-436	766.712500	796.712500
25KHz	569-572	773.562500	803.562500
25KHz	617-620	773.862500	803.862500
25KHz	745-748	774.662500	804.662500

Hubbard

25KHz	177-180	765.112500	795.112500
25KHz	241-244	765.512500	795.512500

	25KHz	365-368	766.287500	796.287500
	25KHz	405-408	766.537500	796.537500
	25KHz	461-464	766.887500	796.887500
	25KHz	525-528	773.287500	803.287500
	25KHz	577-580	773.612500	803.612500
	25KHz	629-632	773.937500	803.937500
	25KHz	909-912	775.687500	805.687500
Isanti				
	25KHz	53-56	764.337500	794.337500
	25KHz	289-292	765.812500	795.812500
	25KHz	357-360	766.237500	796.237500
	25KHz	405-408	766.537500	796.537500
	25KHz	521-524	773.262500	803.262500
	25KHz	713-716	774.462500	804.462500
Itasca				
	25KHz	57-60	764.362500	794.362500
	25KHz	97-100	764.612500	794.612500
	25KHz	205-208	765.287500	795.287500
	25KHz	245-248	765.537500	795.537500
	25KHz	357-360	766.237500	796.237500
	25KHz	401-404	766.512500	796.512500
	25KHz	465-468	766.912500	796.912500
	25KHz	521-524	773.262500	803.262500
	25KHz	569-572	773.562500	803.562500
	25KHz	621-624	773.887500	803.887500
	25KHz	661-664	774.137500	804.137500
	25KHz	701-704	774.387500	804.387500
	25KHz	757-760	774.737500	804.737500
	25KHz	797-800	774.987500	804.987500
	25KHz	837-840	775.237500	805.237500
	25KHz	877-880	775.487500	805.487500
	25KHz	941-944	775.887500	805.887500
Jackson				
	25KHz	17-20	764.112500	794.112500
	25KHz	213-216	765.337500	795.337500
	25KHz	413-416	766.587500	796.587500
	25KHz	457-460	766.862500	796.862500
	25KHz	517-520	773.237500	803.237500
	25KHz	557-560	773.487500	803.487500
	25KHz	705-708	774.412500	804.412500
	25KHz	909-912	775.687500	805.687500
Kanabec				
	25KHz	177-180	765.112500	795.112500
	25KHz	417-420	766.612500	796.612500
	25KHz	505-508	773.162500	803.162500
	25KHz	569-572	773.562500	803.562500
	25KHz	625-628	773.912500	803.912500
	25KHz	741-744	774.637500	804.637500
	25KHz	789-792	774.937500	804.937500
	25KHz	829-832	775.187500	805.187500

Kandiyohi

25KHz	49-52	764.312500	794.312500
25KHz	97-100	764.612500	794.612500
25KHz	173-176	765.087500	795.087500
25KHz	213-216	765.337500	795.337500
25KHz	285-288	765.787500	795.787500
25KHz	365-368	766.287500	796.287500
25KHz	433-436	766.712500	796.712500
25KHz	517-520	773.237500	803.237500
25KHz	609-612	773.812500	803.812500
25KHz	673-676	774.212500	804.212500
25KHz	713-716	774.462500	804.462500
25KHz	781-784	774.887500	804.887500
25KHz	829-832	775.187500	805.187500
25KHz	873-876	775.462500	805.462500
25KHz	917-920	775.737500	805.737500

Kittson

25KHz	125-128	764.787500	794.787500
25KHz	209-212	765.312500	795.312500
25KHz	337-340	766.112500	796.112500
25KHz	405-408	766.537500	796.537500
25KHz	449-452	766.812500	796.812500
25KHz	537-540	773.362500	803.362500
25KHz	605-608	773.787500	803.787500
25KHz	749-752	774.687500	804.687500
25KHz	829-832	775.187500	805.187500
25KHz	869-872	775.437500	805.437500

Koochiching

25KHz	49-52	764.312500	794.312500
25KHz	89-92	764.562500	794.562500
25KHz	169-172	765.062500	795.062500
25KHz	321-324	766.012500	796.012500
25KHz	369-372	766.312500	796.312500
25KHz	437-440	766.737500	796.737500
25KHz	477-480	766.987500	796.987500
25KHz	485-488	773.037500	803.037500
25KHz	557-560	773.487500	803.487500
25KHz	613-616	773.837500	803.837500
25KHz	713-716	774.462500	804.462500
25KHz	781-784	774.887500	804.887500
25KHz	901-904	775.637500	805.637500

Lac Qui Parle

25KHz	53-56	764.337500	794.337500
25KHz	93-96	764.587500	794.587500
25KHz	137-140	764.862500	794.862500
25KHz	281-284	765.762500	795.762500
25KHz	333-336	766.087500	796.087500
25KHz	389-392	766.437500	796.437500
25KHz	529-532	773.312500	803.312500
25KHz	605-608	773.787500	803.787500
25KHz	901-904	775.637500	805.637500

Lake

25KHz	49-52	764.312500	794.312500
25KHz	93-96	764.587500	794.587500
25KHz	161-164	765.012500	795.012500
25KHz	205-208	765.287500	795.287500
25KHz	245-248	765.537500	795.537500
25KHz	285-288	765.787500	795.787500
25KHz	349-352	766.187500	796.187500
25KHz	433-436	766.712500	796.712500
25KHz	473-476	766.962500	796.962500
25KHz	481-484	773.012500	803.012500
25KHz	521-524	773.262500	803.262500
25KHz	581-584	773.637500	803.637500
25KHz	621-624	773.887500	803.887500
25KHz	665-668	774.162500	804.162500
25KHz	713-716	774.462500	804.462500
25KHz	757-760	774.737500	804.737500
25KHz	797-800	774.987500	804.987500
25KHz	837-840	775.237500	805.237500
25KHz	877-880	775.487500	805.487500
25KHz	945-948	775.912500	805.912500

Lake of the Woods

25KHz	57-60	764.362500	794.362500
25KHz	133-136	764.837500	794.837500
25KHz	209-212	765.312500	795.312500
25KHz	257-260	765.612500	795.612500
25KHz	333-336	766.087500	796.087500
25KHz	377-380	766.362500	796.362500
25KHz	429-432	766.687500	796.687500
25KHz	513-516	773.212500	803.212500
25KHz	577-580	773.612500	803.612500
25KHz	621-624	773.887500	803.887500
25KHz	665-668	774.162500	804.162500
25KHz	705-708	774.412500	804.412500
25KHz	753-756	774.712500	804.712500
25KHz	829-832	775.187500	805.187500
25KHz	869-872	775.437500	805.437500
25KHz	941-944	775.887500	805.887500

Le Sueur

25KHz	209-212	765.312500	795.312500
25KHz	249-252	765.562500	795.562500
25KHz	357-360	766.237500	796.237500
25KHz	405-408	766.537500	796.537500
25KHz	509-512	773.187500	803.187500
25KHz	593-596	773.712500	803.712500
25KHz	713-716	774.462500	804.462500
25KHz	793-796	774.962500	804.962500

Lincoln

25KHz	89-92	764.562500	794.562500
25KHz	129-132	764.812500	794.812500
25KHz	385-388	766.412500	796.412500
25KHz	469-472	766.937500	796.937500

25KHz	561-564	773.512500	803.512500
25KHz	781-784	774.887500	804.887500
25KHz	869-872	775.437500	805.437500

Lyon

25KHz	45-48	764.287500	794.287500
25KHz	121-124	764.762500	794.762500
25KHz	161-164	765.012500	795.012500
25KHz	209-212	765.312500	795.312500
25KHz	253-256	765.587500	795.587500
25KHz	329-332	766.062500	796.062500
25KHz	369-372	766.312500	796.312500
25KHz	417-420	766.612500	796.612500
25KHz	461-464	766.887500	796.887500
25KHz	489-492	773.062500	803.062500
25KHz	601-604	773.762500	803.762500
25KHz	661-664	774.137500	804.137500
25KHz	709-712	774.437500	804.437500
25KHz	757-760	774.737500	804.737500
25KHz	913-916	775.712500	805.712500

Mahnomen

25KHz	173-176	765.087500	795.087500
25KHz	213-216	765.337500	795.337500
25KHz	353-356	766.212500	796.212500
25KHz	409-412	766.562500	796.562500
25KHz	457-460	766.862500	796.862500
25KHz	521-524	773.262500	803.262500
25KHz	569-572	773.562500	803.562500
25KHz	633-636	773.962500	803.962500
25KHz	745-748	774.662500	804.662500
25KHz	825-828	775.162500	805.162500

Marshall

25KHz	93-96	764.587500	794.587500
25KHz	137-140	764.862500	794.862500
25KHz	253-256	765.587500	795.587500
25KHz	297-300	765.862500	795.862500
25KHz	385-388	766.412500	796.412500
25KHz	425-428	766.662500	796.662500
25KHz	481-484	773.012500	803.012500
25KHz	521-524	773.262500	803.262500
25KHz	569-572	773.562500	803.562500
25KHz	625-628	773.912500	803.912500
25KHz	797-800	774.987500	804.987500
25KHz	945-948	775.912500	805.912500

Martin

25KHz	53-56	764.337500	794.337500
25KHz	97-100	764.612500	794.612500
25KHz	161-164	765.012500	795.012500
25KHz	241-244	765.512500	795.512500
25KHz	353-356	766.212500	796.212500
25KHz	393-396	766.462500	796.462500
25KHz	433-436	766.712500	796.712500

	25KHz	477-480	766.987500	796.987500
	25KHz	573-576	773.587500	803.587500
	25KHz	633-636	773.962500	803.962500
	25KHz	673-676	774.212500	804.212500
	25KHz	829-832	775.187500	805.187500
McLeod				
	25KHz	129-132	764.812500	794.812500
	25KHz	281-284	765.762500	795.762500
	25KHz	341-344	766.137500	796.137500
	25KHz	401-404	766.512500	796.512500
	25KHz	449-452	766.812500	796.812500
	25KHz	513-516	773.212500	803.212500
	25KHz	557-560	773.487500	803.487500
	25KHz	601-604	773.762500	803.762500
	25KHz	661-664	774.137500	804.137500
	25KHz	741-744	774.637500	804.637500
	25KHz	877-880	775.487500	805.487500
Meeker				
	25KHz	137-140	764.862500	794.862500
	25KHz	329-332	766.062500	796.062500
	25KHz	373-376	766.337500	796.337500
	25KHz	417-420	766.612500	796.612500
	25KHz	505-508	773.162500	803.162500
	25KHz	545-548	773.412500	803.412500
	25KHz	585-588	773.662500	803.662500
	25KHz	625-628	773.912500	803.912500
	25KHz	753-756	774.712500	804.712500
Mille Lacs				
	25KHz	217-220	765.362500	795.362500
	25KHz	257-260	765.612500	795.612500
	25KHz	341-344	766.137500	796.137500
	25KHz	453-456	766.837500	796.837500
	25KHz	537-540	773.362500	803.362500
	25KHz	581-584	773.637500	803.637500
	25KHz	781-784	774.887500	804.887500
	25KHz	869-872	775.437500	805.437500
Morrison				
	25KHz	129-132	764.812500	794.812500
	25KHz	369-372	766.312500	796.312500
	25KHz	425-428	766.662500	796.662500
	25KHz	465-468	766.912500	796.912500
	25KHz	497-500	773.112500	803.112500
	25KHz	573-576	773.587500	803.587500
	25KHz	621-624	773.887500	803.887500
	25KHz	677-680	774.237500	804.237500
	25KHz	717-720	774.487500	804.487500
	25KHz	825-828	775.162500	805.162500
	25KHz	877-880	775.487500	805.487500
Mower				
	25KHz	45-48	764.287500	794.287500
	25KHz	121-124	764.762500	794.762500

	25KHz	177-180	765.112500	795.112500
	25KHz	369-372	766.312500	796.312500
	25KHz	437-440	766.737500	796.737500
	25KHz	477-480	766.987500	796.987500
	25KHz	493-496	773.087500	803.087500
	25KHz	577-580	773.612500	803.612500
	25KHz	621-624	773.887500	803.887500
	25KHz	661-664	774.137500	804.137500
	25KHz	709-712	774.437500	804.437500
	25KHz	757-760	774.737500	804.737500
	25KHz	901-904	775.637500	805.637500
Murray				
	25KHz	289-292	765.812500	795.812500
	25KHz	397-400	766.487500	796.487500
	25KHz	481-484	773.012500	803.012500
	25KHz	525-528	773.287500	803.287500
	25KHz	577-580	773.612500	803.612500
	25KHz	637-640	773.987500	803.987500
	25KHz	901-904	775.637500	805.637500
	25KHz	941-944	775.887500	805.887500
Nicollet				
	25KHz	13-16	764.087500	794.087500
	25KHz	57-60	764.362500	794.362500
	25KHz	201-204	765.262500	795.262500
	25KHz	369-372	766.312500	796.312500
	25KHz	437-440	766.737500	796.737500
	25KHz	485-488	773.037500	803.037500
	25KHz	529-532	773.312500	803.312500
	25KHz	577-580	773.612500	803.612500
	25KHz	617-620	773.862500	803.862500
	25KHz	837-840	775.237500	805.237500
Nobles				
	25KHz	133-136	764.837500	794.837500
	25KHz	173-176	765.087500	795.087500
	25KHz	249-252	765.562500	795.562500
	25KHz	325-328	766.037500	796.037500
	25KHz	377-380	766.362500	796.362500
	25KHz	437-440	766.737500	796.737500
	25KHz	493-496	773.087500	803.087500
	25KHz	541-544	773.387500	803.387500
	25KHz	589-592	773.687500	803.687500
	25KHz	713-716	774.462500	804.462500
	25KHz	793-796	774.962500	804.962500
Norman				
	25KHz	345-348	766.162500	796.162500
	25KHz	393-396	766.462500	796.462500
	25KHz	433-436	766.712500	796.712500
	25KHz	485-488	773.037500	803.037500
	25KHz	529-532	773.312500	803.312500
	25KHz	601-604	773.762500	803.762500

Olmsted

25KHz	13-16	764.087500	794.087500
25KHz	57-60	764.362500	794.362500
25KHz	97-100	764.612500	794.612500
25KHz	137-140	764.862500	794.862500
25KHz	213-216	765.337500	795.337500
25KHz	253-256	765.587500	795.587500
25KHz	293-296	765.837500	795.837500
25KHz	333-336	766.087500	796.087500
25KHz	377-380	766.362500	796.362500
25KHz	421-424	766.637500	796.637500
25KHz	461-464	766.887500	796.887500
25KHz	501-504	773.137500	803.137500
25KHz	549-552	773.437500	803.437500
25KHz	601-604	773.762500	803.762500
25KHz	701-704	774.387500	804.387500
25KHz	741-744	774.637500	804.637500
25KHz	797-800	774.987500	804.987500
25KHz	837-840	775.237500	805.237500
25KHz	877-880	775.487500	805.487500
25KHz	945-948	775.912500	805.912500

Otter Tail

25KHz	41-44	764.262500	794.262500
25KHz	81-84	764.512500	794.512500
25KHz	125-128	764.787500	794.787500
25KHz	169-172	765.062500	795.062500
25KHz	209-212	765.312500	795.312500
25KHz	257-260	765.612500	795.612500
25KHz	325-328	766.037500	796.037500
25KHz	373-376	766.337500	796.337500
25KHz	421-424	766.637500	796.637500
25KHz	477-480	766.987500	796.987500
25KHz	517-520	773.237500	803.237500
25KHz	561-564	773.512500	803.512500
25KHz	617-620	773.862500	803.862500
25KHz	669-672	774.187500	804.187500
25KHz	749-752	774.687500	804.687500
25KHz	789-792	774.937500	804.937500
25KHz	829-832	775.187500	805.187500
25KHz	873-876	775.462500	805.462500
25KHz	917-920	775.737500	805.737500

Pennington

25KHz	177-180	765.112500	795.112500
25KHz	349-352	766.187500	796.187500
25KHz	413-416	766.587500	796.587500
25KHz	469-472	766.937500	796.937500
25KHz	509-512	773.187500	803.187500
25KHz	549-552	773.437500	803.437500
25KHz	589-592	773.687500	803.687500
25KHz	669-672	774.187500	804.187500
25KHz	709-712	774.437500	804.437500
25KHz	757-760	774.737500	804.737500
25KHz	909-912	775.687500	805.687500

Pine

25KHz	125-128	764.787500	794.787500
25KHz	349-352	766.187500	796.187500
25KHz	473-476	766.962500	796.962500
25KHz	481-484	773.012500	803.012500
25KHz	545-548	773.412500	803.412500
25KHz	585-588	773.662500	803.662500
25KHz	637-640	773.987500	803.987500
25KHz	701-704	774.387500	804.387500
25KHz	753-756	774.712500	804.712500
25KHz	797-800	774.987500	804.987500
25KHz	837-840	775.237500	805.237500
25KHz	917-920	775.737500	805.737500

Pipestone

25KHz	341-344	766.137500	796.137500
25KHz	445-448	766.787500	796.787500
25KHz	509-512	773.187500	803.187500
25KHz	549-552	773.437500	803.437500
25KHz	617-620	773.862500	803.862500
25KHz	673-676	774.212500	804.212500
25KHz	833-836	775.212500	805.212500

Polk

25KHz	41-44	764.262500	794.262500
25KHz	81-84	764.512500	794.512500
25KHz	129-132	764.812500	794.812500
25KHz	205-208	765.287500	795.287500
25KHz	245-248	765.537500	795.537500
25KHz	321-324	766.012500	796.012500
25KHz	361-364	766.262500	796.262500
25KHz	401-404	766.512500	796.512500
25KHz	445-448	766.787500	796.787500
25KHz	501-504	773.137500	803.137500
25KHz	541-544	773.387500	803.387500
25KHz	617-620	773.862500	803.862500
25KHz	661-664	774.137500	804.137500
25KHz	701-704	774.387500	804.387500
25KHz	789-792	774.937500	804.937500
25KHz	833-836	775.212500	805.212500
25KHz	873-876	775.462500	805.462500

Pope

25KHz	85-88	764.537500	794.537500
25KHz	133-136	764.837500	794.837500
25KHz	321-324	766.012500	796.012500
25KHz	377-380	766.362500	796.362500
25KHz	441-444	766.762500	796.762500
25KHz	481-484	773.012500	803.012500
25KHz	581-584	773.637500	803.637500
25KHz	821-824	775.137500	805.137500

Ramsey

25KHz	57-60	764.362500	794.362500
25KHz	137-140	764.862500	794.862500
25KHz	293-296	765.837500	795.837500

	25KHz	333-336	766.087500	796.087500
	25KHz	381-384	766.387500	796.387500
	25KHz	437-440	766.737500	796.737500
	25KHz	513-516	773.212500	803.212500
	25KHz	561-564	773.512500	803.512500
	25KHz	617-620	773.862500	803.862500
	25KHz	661-664	774.137500	804.137500
	25KHz	701-704	774.387500	804.387500
	25KHz	741-744	774.637500	804.637500
	25KHz	789-792	774.937500	804.937500
	25KHz	837-840	775.237500	805.237500
	25KHz	877-880	775.487500	805.487500
	25KHz	917-920	775.737500	805.737500
Red Lake				
	25KHz	89-92	764.562500	794.562500
	25KHz	169-172	765.062500	795.062500
	25KHz	285-288	765.787500	795.787500
	25KHz	337-340	766.112500	796.112500
	25KHz	381-384	766.387500	796.387500
	25KHz	421-424	766.637500	796.637500
	25KHz	461-464	766.887500	796.887500
	25KHz	517-520	773.237500	803.237500
	25KHz	565-568	773.537500	803.537500
	25KHz	605-608	773.787500	803.787500
	25KHz	749-752	774.687500	804.687500
	25KHz	901-904	775.637500	805.637500
	25KHz	941-944	775.887500	805.887500
Redwood				
	25KHz	169-172	765.062500	795.062500
	25KHz	217-220	765.362500	795.362500
	25KHz	297-300	765.862500	795.862500
	25KHz	337-340	766.112500	796.112500
	25KHz	381-384	766.387500	796.387500
	25KHz	429-432	766.687500	796.687500
	25KHz	565-568	773.537500	803.537500
	25KHz	629-632	773.937500	803.937500
	25KHz	669-672	774.187500	804.187500
	25KHz	749-752	774.687500	804.687500
	25KHz	825-828	775.162500	805.162500
Renville				
	25KHz	257-260	765.612500	795.612500
	25KHz	349-352	766.187500	796.187500
	25KHz	393-396	766.462500	796.462500
	25KHz	465-468	766.912500	796.912500
	25KHz	493-496	773.087500	803.087500
	25KHz	537-540	773.362500	803.362500
	25KHz	789-792	774.937500	804.937500
	25KHz	909-912	775.687500	805.687500
Rice				
	25KHz	53-56	764.337500	794.337500
	25KHz	169-172	765.062500	795.062500