PR 92-273

WISCONSIN 800 MHz
F.C.C. REGION NUMBER 45

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REGIONAL PLAN

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PREFACE

In December 1983, the United States Congress directed the Federal Communications Commission (FCC) to establish a plan to ensure that the communications needs of state and local public safety authorities would be met for the future. The Commission issued a Notice of Inquiry on March 7, 1984 and evaluated over three hundred comments from the public safety community and other interested parties.

These comments formed the basis for a Staff Report issued by the Commission's Private Radio Bureau on August 1, 1985. This report suggested various methods of meeting the communications needs of public safety. One option included was the allocation of additional frequencies at 821-825 MHz and 866-870 MHz.

The Commission issued an allocation order on September 19, 1986. Six megahertz of spectrum were selected in the 821-824 MHz and 866-869 MHz bands since they were adjacent to frequencies already being used for public safety purposes. However, while the Commission made this allocation, it also stipulated that the frequencies could not be used until a National Plan for spectrum utilization was adopted.

The Commission then established the National Public Safety Planning Advisory Committee (NPSPAC) in December, 1986. This committee had open membership and all interested parties were

invited to participate in its meetings. The Commission charged NPSPAC with the following tasks:

1. Identify communications requirements of public safety agencies.

2. Develop a scheme for efficient use of the new frequencies.

3. Develop a scheme to increase the utility of existing public safety frequencies.

4. Recommend the manner in which new technologies can be applied to public safety frequencies.

5. Recommend guidelines to ensure compliance with the National Plan.

NPSPAC submitted its Initial Report to the Commission on March, 1987. On May 15, 1987, the Commission issued a Notice of Proposed Rule Making proposing policies and rules for the National Plan. NPSPAC then issued its Final Report in September, 1987. On December 18, 1987 the Commission released a Report and Order regarding the development and implementation of a Public Safety National Plan. (General Docket No. 87-112).

In its introductory comments the Commission expresses its

belief that "while certain technical concerns must be addressed at the national level, the great diversity of needs in different areas of the country demand that input also be obtained at the State and Local levels." Thus, the United States was divided into Regions, primarily along State boundaries. A few large metropolitan areas petitioned for status as independent Planning Regions. The Commission subsequently granted this Petition and established fifty-five regions.

This document constitutes the Public Safety Communications Plan for Region No. 45: **The Wisconsin Planning Region.** It addresses the unique spectrum allocation requirements of public safety and other eligible authorities throughout the State of Wisconsin.

This plan is respectfully submitted to the Commission this 10th day of August, 1992 in conformance with the National Plan.

Richard Shulak, P.E.

Chairman

T H E R E G I O N

ESTABLISHMENT OF REGIONAL BOUNDARIES

For Public Safety Communications purposes, the Wisconsin Region (the Region) is the geographic area of the State of Wisconsin, excluding the eleven southeastern counties of Dane, Dodge, Jefferson, Kenosha, Milwaukee, Ozaukee, Racine, Rock, Walworth, Washington and Waukesha, which are a part of the Southern Lake Michigan Region.

The Wisconsin Region is comprised of sixty-one counties within the State of Wisconsin. Its approximately two and one-half million people represent a significant portion of the Nation's population.

Protecting the lives and property of these persons is a function of hundreds of Public Safety and Special Emergency agencies which are operated or regulated by a multitude of various political jurisdictions. Personal mobility and the proximity of communities in today's rural and metropolitan areas demand cooperation and coordination among these agencies. Mobile and portable radios provide the means for the myriad agencies involved to communicate with each other.

Radio communications also provide the means for each agency to accomplish its own individual, day-to-day operations. These communications must be reliable and free from interference from neighboring agencies. Therefore, frequencies must be assigned to agencies throughout a given area in a manner that makes inter-agency communication possible but prevents inter-agency interference.

Other issues to be considered when determining what area should comprise a Planning Region are: the continuing urbanization of outlying counties, the sophistication of radio technology, and most importantly, the amount of radio spectrum available to public safety agencies throughout the area.

Final boundaries for the Wisconsin Region, along county lines, were drawn as a result of the boundaries defined as the Southern Lake Michigan Region. This region includes eleven of the southeastern counties in the State of Wisconsin. The remaining Sixty-one counties which comprise the Wisconsin 800 MHz Planning Region are listed in **Table 1**, and shown in **Figure 1**.

PRELIMINARY ORGANIZATION

Monthly meetings for the planning process began in April of 1989. Deliberations on administrative and technical questions

TOTAL POPULATION PROJECTIONS BY COUNTY AND YEAR[1]

	1980	1985	1990	1995	2000	2005	2010	2015	2020
ADAMS	13457	14660	15633	16687	17747	18839	19957	20874	21354
ASHLAND	16783	16934	17347	17721	18008	18250	18511	18774	18980
BARRON	38730	41022	42805	44331	45396	46287	47262	48241	48953
BAYFIELD	13822	13857	14344	14825	15233	15603	16029	16466	16766
BROWN	17580	185556	195793	205861	214987	223417	231548	238949	245077
BUFFALO	14309	14153	14440	14702	14850	14904	14918	14895	14814
BURNETT	12340	12898	13577	14269	14958	15690	16516	17255	17754
CALUMET	30867	33403	36143	39098	41932	44637	47366	49931	52006
CHIPPEWA	52127	53662	55932	58136	60013	61600	6307'7	64382	65348
CLARK	32910	32860	33636	34261	34499	34477	34400	34350	34279
COLUMBIA	43222	43581	45435	47283	48898	50312	51669	52822	53583
CRAWFORD	16556	16672	16878	17021	16983	16832	16672	16533	16385
DOOR	25029	26191	27420	28520	29476	30462	31577	32642	33420
DOUGLAS	44421	42750	42341	41917	41430	40952	40460	39921	39376
DUNN	34314	35292	36060	37175	38470	39935	41451	42931	44422
EAU CLAIRE	78805	83695	88362	93530	98954	104614	110295	115479	119856
FLORENCE	4172	4307	4456	4607	4728	4823	4913	4994	5037
FOND DU LAC	88964	90119	92017	93702	94871	95698	96313	96675	96780
ORREST	9044	9368	9741	10161	10517	10793	11035	11254	11409
GRANT	51736	52192	52990	53887	54668	55325	55840	56179	56379
GREEN	30012	30453	31099	31627	31935	32098	32180	32223	32242
GREEN LAKE	18370	19121	19824	20487	21062	21578	22109	22575	22887
IOWA	19802	20158	20829	21412	21750	21876	21944	22021	22029
IRON	6730	6418	6194	5953	5690	5443	5219	5018	4825
JACKSON	16831	16875	16954	16995	16929	16781	16587	16344	16036
JUNEAU	21037	21870	22740	23581	24310	24970	25643	26218	26540
KEWAUNEE	19539	20155	20836	21414	21793	22038	22248	22434	22541
LA CROSSE	91056	96632	100876	105275	109564	113958	118352	122348	125694
LAFAYETTE	17412	17412	17631	17763	17691	17485	17282	17112	16931
LANGLADE	19978	20281	20553	20801	20906	20892	20843	20743	20536
LINCOLN	26555	26813	27348	27831	28071	28090	27991	27803	27540
MANITOWOC	82918	82888	83242	83354	82871	82006	81036	80036	78965
MARATHON	111270	111807	114811	117301	118929	120010	120750	121186	121403
MARINETTE	39314	40268	41289	42093	42553	42854	43178	43472	43603
MARQUETTE	11672	12638	13261	13879	14464	15044	15692	16274	16633

TABLE # 1

TOTAL POPULATION PROJECTIONS BY COUNTY AND YEAR[1]

	1980	1985	1990	1995	2000	2005	2010	2015	2020
MENOMINEE	3373	3835	4395	4978	5516	6005	6496	6983	7400
MONROE	35074	36233	37875	39498	40867	42055	43189	44209	44953
OCONTO	28947	30370	31653	32951	34032	34950	35833	36581	37050
ONEIDA	31216	32529	33990	35425	36569	37472	38267	38879	39140
OUTAGAMIE	128730	134460	140816	146406	150711	154201	157409	160185	162116
PEPIN	7477	7483	7587	7692	7709	7671	7619	7585	7552
PIERCE	31149	32186	33949	35882	37844	39837	41805	43611	45135
POLK	32351	34991	36991	39023	40923	42792	44804	46742	48272
PORTAGE	57420	61436	64403	67649	70987	74310	77514	80342	82690
PRICE	15788	16330	16895	17479	18024	18545	19083	19548	19845
RICHLAND	17476	17292	17349	17329	17189	17001	16849	16716	16537
RUSK	15589	15549	15912	16206	16365	16444	16489	16496	16425
ST CROIX	43262	46549	50177	53795	57030	59992	62878	65520	67704
SAUK	43469	45788	47586	49378	50969	52378	53663	54683	55302
SAWYER	12843	13763	14780	15985	17217	18436	19717	20915	21796
SHAWANO	35928	36764	37723	38676	39374	39844	40193	40420	40478
SHEBOYGAN	100935	102273	104253	105820	106749	107315	107706	107865	107689
TAYLOR	18817	19504	20317	21023	21454	21688	21873	22060	22177
EMPEALEAU	26158	26675	27417	28194	28834	29271	29580	29803	29977
VERNON	25642	26303	26946	27436	27630	27627	27591	27558	27426
VILAS	16535	17415	18483	19730	21048	22435	23943	25299	26088
WASHBURN	13174	14172	15178	16174	17123	18133	19290	20383	21195
WAUPACA	42831	44776	46428	48124	49663	51111	52550	53827	54787
WAUSHARA	18526	19625	20594	21659	22747	23863	25033	26011	26540
WINNEBAGO	131772	136135	139970	143321	146040	148462	150669	152318	153250
WOOD	72799	75482	77993	80105	81465	82383	83139	83767	84188
TOTAL STATE	2,178,965	2,414,879	2,502,497	2,587,398	2,659,215	2,722,794	2,784,045	2,837,660	2,876,095

[1] Wisconsin Department of Administration Demographic Services Center, Wisconsin Population Projections 1980-2020, 5th. ed., June 1988.

TABLE # 1

WISCONSIN 800 MHZ
PLANNING REGION

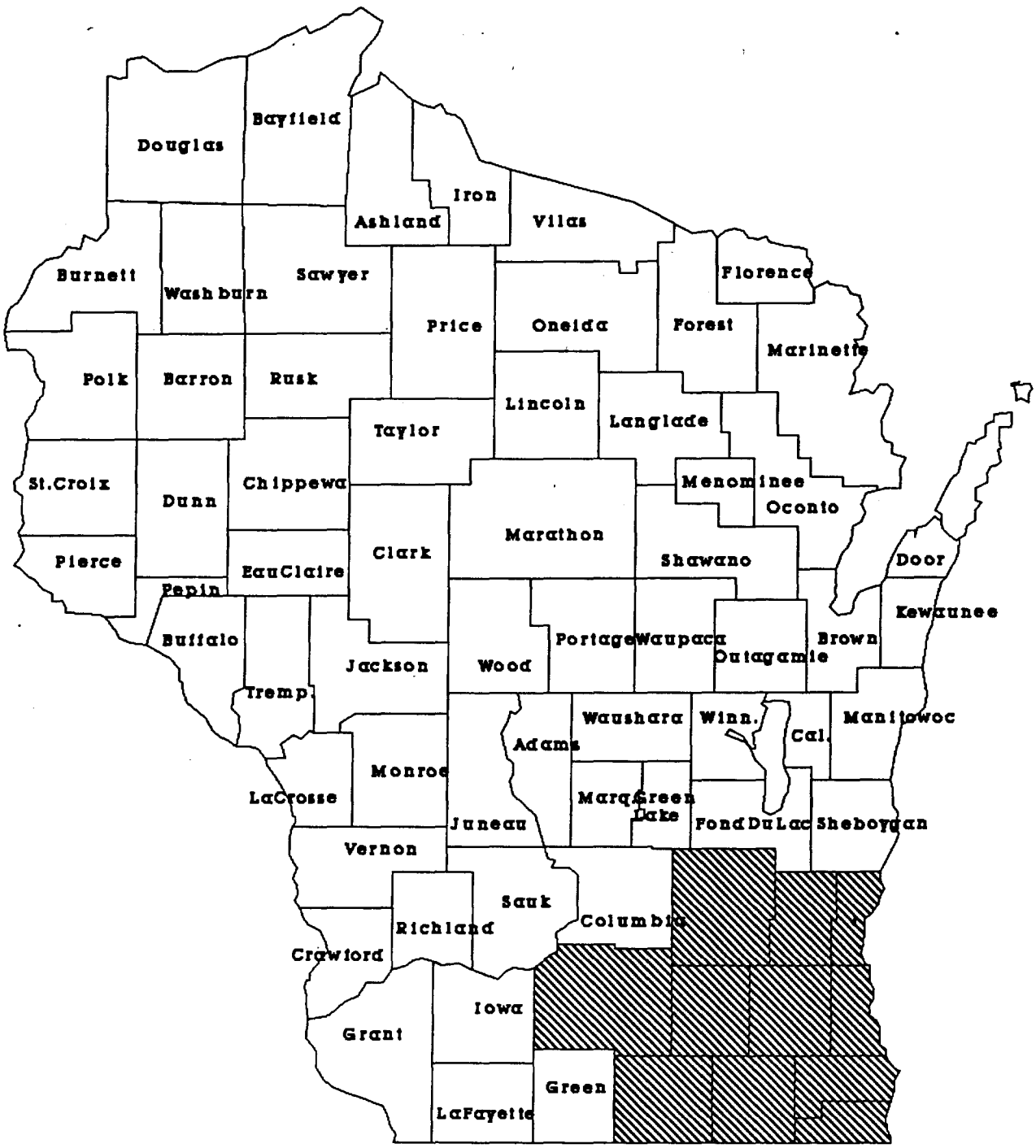


Figure 1

began at that time, using the Regional Planning Tasks published by NPSPAC as a functional basis for organizing small work groups. Thus, much of the groundwork had already been done prior to the formal creation of the Region.

In July, 1988, two individuals were designated by the Associated Public-Safety Communications Officers, Inc. (APCO) as Co-Convenors for the Region: Richard Shulak of Wisconsin DOT - State Patrol Communications and Carl Guse of the Dodge County Sheriff's Department (Wisconsin APCO Frequency Coordinator). They then prepared and published an announcement of the first official meeting for persons interested in participating in the planning process.

NOTIFICATION OF ELIGIBLES

In General Docket No. 87-112, the FCC declared that since the Public Safety Radio Service and the Special Emergency Radio Service both play important roles in public safety, it is necessary to make both services eligible to operate in the 821-824/866-869 MHz bands. While recognizing that it may not be possible to grant requests for assignments to everyone, the Commission did conclude that membership on regional planning committees must be open to representatives from all potential user groups.

In accordance with the Report & Order, the Wisconsin Planning Region took the below listed steps to ensure that its membership was open to as broad a range of eligible participants as possible.

1. On February 22, 1989 the State of Wisconsin mailed the Announcement of the Initial Meeting to individual public safety agencies as well as professional organizations and associations of all eligible user groups. Notices were also mailed to Communications magazine, the Federal Emergency Management Agency and the Federal Communications Commission. The Announcement of Initial Meeting and the mailing list are contained in Appendix A.

2. On April 7, 1989 an Announcement of Initial Meeting notice was sent to the State of Wisconsin Law Enforcement Bulletin which is distributed to ALL Wisconsin Law Enforcement Agencies.

FORMATION OF THE PLANNING COMMITTEE

On April 28, 1989 a first official meeting of the Wisconsin 800 MHz Regional Planning Committee (the Committee) was held in Fond du Lac, Wisconsin. Mr. Richard Shulak was elected Chairman of the Committee and Mr. Richard Buggs volunteered to act as Secretary.

The agendas and minutes of this meeting and of all meetings succeeding it are included in Appendix B. Appendix C contains the names, affiliations, mailing addresses and phone numbers of meeting attendees.

REGIONAL PLAN REVIEW COMMITTEE (RPRC)

The Committee realizes that its work does not end with the submission of this Plan (e.g. future modifications to the Plan may be required, applications for radio systems proposed within the Region will need to be reviewed for compatibility with the Plan, implementation of these systems will require monitoring, and coordination with the National Plan will continue). Obviously, there must be a mechanism by which future tasks can be accomplished.

To provide this mechanism, the Committee of the Whole has established the Regional Plan Review Committee (RPRC) (See Appendix D). This committee will be composed of the Regional Planning Committee Chairman who will act as chair, the Frequency Advisory Committee Chairman and the chairs of the Regions three standing committees (Operational, Technical and Administrative). The RPRC will convene upon the Commission's approval of this Plan.

COORDINATION WITH ADJACENT REGIONS

There are seven planning regions which will be affected by the Wisconsin Plan. They consist of the Southern Lake Michigan Region (Region 54), the balance of Illinois (Region 13), Indiana (Region 16) and Michigan (Region 21) not included in Region 54, and the States of Minnesota (Region 22) and Iowa (Region 17).

In order to assure mutual cooperation and coordination with these surrounding Regions, the Wisconsin Region has taken the following steps:

(1) Identified the regions

(2) Assigned committee members from the Wisconsin Region to attend regional committee meetings in the regions.

(3) Mailed meeting notifications to each region's chairperson.

(4) Attended their region planning committee meetings when possible.

(5) Sent plan to adjacent regions for their review and comments. (See Appendix I)

Communication among regions has thus been ever present during the drafting of this Plan. Implementation of each of the adjacent regional plans should likewise be coordinated through the mutual membership and cooperation of the planning committees.

CONFORMITY WITH THE NATIONAL PLAN

It is the expressed intent of the Committee to conform with the requirements of the National Plan as defined in paragraphs 11-40 of General Docket No. 87-112. This Plan is submitted to the Commission subject to the review process described in the Report and Order.

REVIEW PRIOR TO SUBMISSION

As work progressed on the Regional Planning Tasks, three subcommittees were formed to address issues relating to Administrative, Technical, and Operational matters. Sergeant Donald Sleik of the Winnebago Sheriff's Department chaired the Administrative subcommittee, Mr. Dan Eklof chaired the Technical subcommittee and Sergeant John Lampkin of the Green Bay Police Department chaired the Operations subcommittee. They codified their suggestions and wrote draft proposals on individual topics. After reaching a consensus within the subcommittee, their proposals were submitted to the Committee of the Whole for review

and approval. A majority vote by attending members was required for acceptance.

Upon acceptance of its content by the Committee, each draft was then forwarded to the Administrative subcommittee for collation. The complete final draft was then presented to the Committee of the Whole for a page by page review.

AUTHORITY

The Wisconsin 800 MHz Regional Planning Committee derives its authority to carry out activities required for composition and implementation of this Plan from the Federal Communications Commission's Report and Order General Docket No. 87-112 released on December 18, 1987.

N E E D S A N A L Y S I S

The Report & Order specifies that regional plans explain how the requirements of all eligible entities were considered. This section of the Plan describes how this specification has been met.

The regional plan for radio spectrum usage by public safety and other eligible entities in the area of Wisconsin not affected by the Southern Lake Michigan 800 MHz Regional Plan was drafted and assembled by the Wisconsin 800 MHz Regional Planning Committee.

The Wisconsin Regional Plan has been reviewed by committee representatives from participating eligibles who represent communications interests in the respective counties encompassed by the plan to ensure that Public Safety and other eligible entities had opportunity to participate in the development of the plan.

In accordance with Docket 87-112, the Associated Public Safety Communications Officers, Inc. (APCO) recommended to the FCC the appointment of a **"Convenor"** for the Wisconsin Region. Following statewide public notification to eligible entities, the

first meeting of interested parties was held in Fond du Lac, Wisconsin on April 28, 1989. At this meeting, the Regional Chairman was elected and a secretary appointed. Three standing committees were formed: Operations, Administrative and Technical.

Due to the expansive geographic area of the Wisconsin Region, travel distances and travel constraints precluded large-scale, joint regional meetings of eligibles. Therefore, in order to fulfill the intent of Docket 87-112 and attain the best possible statewide representation, the regional chairman and committee chairs (Administrative, Operations and Technical) traveled to key regional areas to hold meetings with local representatives.

A P P L I C A T I O N S

This section of the Plan describes the procedures for applying for a license to operate a radio system in the new spectrum; as well as, the process by which that application will be evaluated. Applications shall be submitted to the local frequency coordinator. The application shall be forwarded to the RPRC chair person. It is the intention of the RPRC to meet within thirty (30) days of the the date of the Commission's approval of this Plan.

APPLICATION REVIEW

Applications for licenses in the 821-824/866-869 MHz band will be subject to review by the RPRC. This review is required prior to formal submission of the application to the national APCO frequency coordination office. Applications may be rejected at the Regional level for non-conformance with this Plan.

APPLICATION PROCEDURES

Applications will be submitted to the local Frequency Advisory Committee Chairman. The Frequency Advisory Committee Chairman will review the application packet for completeness and

verify the eligibility of the applying organization. Incomplete applications or applications from agencies which are not considered by this Plan to be eligible for the limited spectrum will be returned to the applicant with the appropriate remarks. Copies of complete applications received from eligible public safety entities will be forwarded to the RPRC for evaluation.

INFORMATION REQUIRED

The current standardized APCO Frequency Coordination and FCC License Application forms will be used. In addition, the applicant will be required to furnish supplemental information in specific categories. These categories are enumerated (and briefly defined) on the following page. Each category has been assigned a numerical weight for application evaluation purposes. Category weights are contained in Appendix E.

1. Service --- what tasks or duties the agency is charged with accomplishing.

2. System Type --- In narrative form, a description of the radio system being proposed (trunked, conventional, voice, data, voice/data combined, etc.)

3. Intersystem Interoperability --- How agents of the applying organization will communicate with agents of different organizations.

4. Channel Loading Factors --- Equipment inventory totals, and the maximum number of mobile radios potentially in use at a given time.

5. Coverage Area --- Details of an engineering survey showing the radio coverage required for minimum coverage of jurisdictional boundaries.

6. Vacated Frequencies Returned --- Which frequencies the agency will release.

7. Implementation Schedule --- An explanation of any budgetary commitment and a proposed time frame for putting equipment into service.

The RPRC may request additional information any time during review to assist in evaluation.

APPLICATION EVALUATION

The Regional Plan Review Committee (RPRC) will review each application for its conformity to this Plan. Evaluations will be

based upon the seven factors mentioned above. A final point total will be determined by adding the points earned in each category as listed in Appendix E. The RPRC will base their recommendation for approval or rejection of the application upon the final point total.

Once an application has been reviewed it will be returned to the applicant for the appropriate action (e.g., filing, additional information required, modification, etc.).

ELIGIBILITY

Agencies applying for frequencies in the 821-824 and 866-869 MHz band will be prioritized according to the degree that the service(s) they provide is fundamental to the protection of life and property. Only Public Safety and Special Emergency Radio Service agencies are eligible to apply for a license in the 821-824/866-869 MHz band.

APPEAL PROCESS

Throughout the frequency allocation process, applicants are given opportunities to appeal decisions which have caused rejection of their application. The appeal process has three levels:

1. The Regional Plan Review Committee

2. Associated Public Safety Communications Officers, Inc.

3. The Federal Communications Commission

An applicant who decides to appeal a rejection should initiate that appeal immediately upon notification of the rejection. In the event that an appeal reaches the third level (FCC), the Commission's decision will be final and binding upon all parties.

S P E C T R U M U T I L I Z A T I O N

This portion of the Plan lays the foundation for the efficient and effective utilization of the spectrum. Its purpose is to guide the RPRC in the task of evaluating new applications for the use of radio frequencies in the 821-824/866-869 MHz bands.

TRUNKING

Applicants requesting licenses for five (5) or more channels will be required to trunk those channels. Exceptions to the rule will not be allowed unless an equally spectrum efficient technology is proposed or the applicant can otherwise demonstrate that trunking will not meet the specific operational requirements of the agency.

Applicants requesting licenses for four (4) or less channels may be permitted conventional operation. Small entities, with minimal requirements shall be required to join together in single systems whenever possible.

COVERAGE AREA

The desired coverage of a system is considered to be a

maximum of three (3) miles outside of the boundary of the applicant's jurisdiction. The maximum designed mean signal strength at this contour shall not exceed 40 dBμ (+40 dB above one microvolt per meter) measured with an antenna mounted no less than five feet (5') above ground. Petitions to provide coverage exceeding these parameters will be examined on a case by case basis. Overlap or extended coverage must be minimized even where agencies are proposing to intermix systems for cooperative and/or mutual aid purposes.

ADJACENT CHANNEL ASSIGNMENTS

Adjacent channel assignments will be made when it is determined that the two or more systems will NOT create a signal strength greater than +25 dBμ anywhere within their partners' boundaries.

CO-CHANNEL ASSIGNMENTS

Co-channel assignments will be made when it is determined that the two or more systems will NOT create a signal strength greater than +5 dBμ anywhere within the partners' co-channel boundary.

To achieve the most efficient use of the spectrum, distances between transmitters for co-channel reuse will not be held to a

seventy (70) mile separation in this Plan. Separation of co-channel transmitters will be determined by the coverage needs of the applicant, natural barriers for separation, antennae patterning and limited ERP's where possible.

CHANNEL LOADING CRITERIA

In this Plan, existing loading standards will be applied for voice communications: 70 mobiles per conventional channel, 100 mobiles per trunked channel. For all data only systems, the loading criteria will increase: 100 mobiles per conventional channel and 150 mobiles per trunked channel.

Agencies that support interoperability by permitting Federal use of their frequencies through S-160 (or equivalent) agreements, may augment their channel requirements by a maximum of 2% to account for the increased number of mobile units. Written documentation detailing the expected number of Federal radios involved will be required at the time of application.

In order to conserve spectrum, agencies must demonstrate that the number of radios potentially in use at one time meet the loading requirements. For example, a police department with 50 squad cars each containing a portable and a mobile radio does not signify a channel load of 100 units. Petitions to deviate from this rule will be considered by the RPRC on a case by case basis.

VACATED FREQUENCIES

It is anticipated that as public safety agencies implement 800 MHz radio systems, they will be able to vacate the VHF and UHF frequencies on which they previously operated. The RPRC will apply the three conditions governing frequency give-backs described in the Report and Order:

(1) The new system fully replaces the functions of the old one.

(2) The licensee has no other communications requirements that could be met through the use of the lower frequencies.

(3) The new system has operated satisfactorily for long enough to allow a smooth transition from former operations and to demonstrate its reliability.

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

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

INITIAL SPECTRUM ALLOCATION

The methodology used to determine the spectrum allocations at the time of filing this Plan is contained in Appendix G. The allocation itself is contained in Appendix H.

TECHNICAL DESIGN CONSIDERATIONS

This section of the Plan discusses topics which must be considered when engineering a new system.

CHANNELING PLAN

The 25 kHz offset channeling plan established by the National Plan will be required of all systems to be licensed in the 821-824/866-869 MHz bands.

INTEROPERABILITY WITH ADJACENT LOWER BANDS

There are several agencies in the Region currently operating on frequencies in the 806-821/851-866 MHz bands. While most of these agencies may continue operating in the 806-821/851-866 MHz frequencies for several years, many of them will be looking to expand their systems into the new spectrum. Any application submitted under the auspices of this Plan must demonstrate technical ability to provide communication between new and existing systems.

Waivers for technical specifications on existing 800 MHz equipment will be considered on an individual basis.

SYSTEM DESIGN

When designing a system, engineers will be required to minimize the distance between transmitter sites by using a combination of limited Effective Radiated Power (ERP), tower height, type of terrain or any other factors which are technically feasible to minimize adjacent and co-channel interference. Information detailing the methodologies used (including calculations) must be included in the application.

DATA TRANSMISSION

The Wisconsin Region determined the use of radio frequencies for data transmissions was a large "growth" category among agencies in the Region. As stated in the Loading Criteria section of this Plan, data only transmissions, whether for emergency or routine messages, will demand a higher loading standard.

CELLULAR RADIO TECHNOLOGY

Trunking technology is presently considered the most spectrum efficient use of radio transmissions for public safety. Cellular radio technology has so far proven useful only for telephone communications. However, it may, with future technological improvements, prove useful for public safety. Agencies are cautioned that any proposal for the use of cellular

radio technology as an alternative to a trunked radio system must demonstrate that it can provide the same or greater degree of spectrum efficiency as trunking **and** handle communications in an emergency situation.

MOBILE SATELLITE SERVICE (MSS)

During incidents of major proportions such as airliner crashes, earthquakes, tornadoes, floods, forest fires or nuclear reactor calamities, public safety requirements might include the need for long-range communications in and out of a disaster area. The planned Mobile Satellite Service (MSS) may prove to be a viable alternative to land based systems in these situations, once technical innovations are developed which will provide uni-directed or corridor-driven communications over a lengthy distance. This service should be restricted to frequencies above 960 MHz, however, and licensing in the Public Safety spectrum shall be limited to public safety eligibles only.

AIRCRAFT TO GROUND COMMUNICATIONS

The use of any 800 MHz radio in an aircraft shall be restricted. Air to ground transmissions shall be limited to a maximum effective radiated power (ERP) of one (1) Watt.* Unless system design dictates otherwise, tactical transmissions shall be on the mobile relay output or talk-around frequencies only.

Co-channel and adjacent channel users are not required to provide protection to airborne users. No transmissions on limited area channels are allowed above 2,000 feet AGL. In addition, no transmissions are allowed above 5,000 feet AGL even on wide area mutual aid channels.

* Aircraft will be permitted to utilize additional power under 500 feet AGL.

INTEROPERABILITY CONSIDERATIONS

This section of the Plan outlines the steps taken by the Committee to permit Federal, State and Local agencies to coordinate their activities during an emergency or disaster situation.

INTERSYSTEM INTEROPERABILITY

The intent of this Plan is to enhance interagency communication. Extensive mutual aid communication networks already exist throughout the Region. The National Plan has now set aside five (5) channels in the new spectrum for mutual aid. Agencies applying for licenses in the 821-824 and 866-869 MHz bands will be required to explain how they will implement the new Common Channels. They will also be required to explain how they will maintain intercommunication with their neighboring agencies who do not implement the Common Channels but still are dependent upon the applying agency for assistance in an emergency.

COMMON CHANNELS

The Common Channels used in this Region comply with the National Plan and consist of one (1) calling channel and four (4) tactical channels (TAC 1 through TAC 4). (See Table 2).

MUTUAL AID CHANNELS

USAGE	FREQUENCY
Calling Channel	821.0125 MHz *
	866.0125 MHz **
Tactical Channel #1	821.5125 MHz *
	866.5125 MHz **
Tactical Channel #2	822.0125 MHz *
	867.0125 MHz **
Tactical Channel #3	822.5125 MHz *
	867.5125 MHz **
Tactical Channel #4	823.0125 MHz *
	868.0125 MHz **

* = Mobile Frequencies

** = Base Frequencies

T A B L E # 2

Communications on Common Channels use a two-tier structure: initial contact (calling) and working (tactical) channels. These channels are not to be used for daily operations.

The Common Channels are restricted to required intercommunications among agencies that do not have access to other compatible communications channels. A "Primary Dispatch Center" will assign one or more tactical channels for the duration of a specific emergency or incident requiring multi-agency communications.

Because of the wide variance of voice codes among agencies ("ten" signals, alpha-numeric codes, etc.), plain English will used on the Common Channels. The Primary Dispatch Center, with full support of the Regional Committee, will monitor radio traffic, discipline and resolve serious or chronic infractions.

PRIMARY DISPATCH CENTER

The State of Wisconsin will develop a program to implement the National Calling Channel and Tactical Channels with base stations at their sites. Primary Dispatch Centers will be designated by the RPRC as deemed necessary. They will ensure that interoperable tactical channel mobile relays exist in specific areas of the Region. The mobile relay stations will provide the required number of working channels within the Region

necessary to assure interoperable communications between Federal, State and Local Government agencies involved in an emergency. Other services shall participate, as required, to ensure the public's safety.

Agencies involved in an incident will be subject to the Regional rules on inter-agency communication. Radio transmissions will be made in accordance with the directions of the Primary Dispatch Center or controlling agency.

CALLING CHANNEL

Calling Channel base stations will be configured as mobile relays, strategically located to assure complete regional coverage and connected by a suitable network to Primary Dispatch Centers. Simplex operation of the base frequency (866.0125 MHz) will be permitted on the Calling Channel to establish initial contact between agencies for the purpose of determining which Tactical Channel(s) to use for the duration of an incident.

Depending on geographical size and population density, several networks may be necessary to cover the outer areas of the Region. Primary Dispatch Centers and agencies operating base/control stations in the area shall monitor the Calling Channel to provide assistance and/or assign a Tactical Channel to requesting field units.

The Calling Channel shall be used only to make initial contact with other agencies in the Region or with the Primary Dispatch Center in that section of the Region. After contact is established, a tactical or other mutual aid channel must be expeditiously agreed upon or be assigned by the Primary Dispatch Center. The Calling Channel shall not be used as a working channel. It shall be vacated as soon as possible.

TACTICAL CHANNELS (TAC 1 THROUGH TAC 4)

Tactical Channels are reserved for agencies involved in multi-agency communications during emergencies or other occurrences requiring interoperable communications. Tactical Channels, like the Calling Channel, will be strategically located to provide maximum coverage throughout the Region. Design criteria will limit TAC Channel coverage to permit multiple re-use of the channels within the Region, as required, in coordination with adjacent regions to prevent or minimize interference.

TAC Channel coverage design shall ensure that at least one channel is available for each section of the Region. Multi-agency communications events will be coordinated by the Primary Dispatch Center or assigned to the controlling agency. The coordinating agency shall relinquish control of the channels when the incident is cleared.

CROSS SYSTEM PATCHES

Cross system patches to existing day to day systems, other mutual aid channels or long range communications systems must be manually controlled. Automatic patches are not permitted. Cross system patches are normally handled by the Primary Dispatch Center in the section of the Region involved.

IMPLEMENTATION SCHEDULES

Many of the eligibles for these frequencies are units of Local or State Government. The nature of governmental planning and budgeting, combined with difficult revenue constraints, prohibits these eligibles from implementing newer technology systems in the normal time required by the FCC Rule (8 month conventional/12 months trunked).[1] In many cases, public safety systems will require multi-year phased implementation schedules requiring construction times three to five times longer than private or commercial systems. Regional, wide area and statewide systems as allowed and encouraged by the plan will certainly require these longer periods to construct.

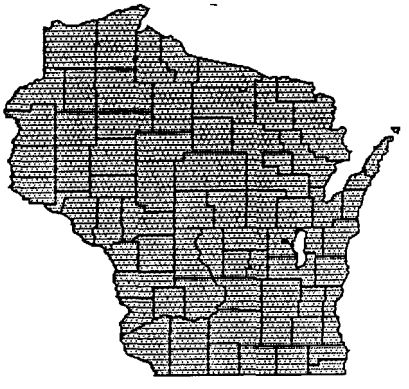
In view of these known situations, this plan establishes an extended implementation schedule ("slow growth") in accordance with the below cited FCC rules and regulations. This extended implementation schedule is available to all eligible applicants by stating "Slow Growth" on the license application. The applicants will be further required to submit documentation showing the funding, construction and implementation schedule proposed for the system. Proposed systems must adhere to the channel loading requirements as contained on Page 21 of this plan

For all other purposes, the FCC rules shall govern, specifically section 90.629 as it applies to the requirements for extended implementation schedules.

[1]FCC Rules and Regulations S 90.155(a) and S 90.631(c)

APPENDIX A

Convening Meeting Notice



800 Megahertz
Public Meeting Notice

Having been duly certified to the Federal Communications Commission (FCC) by the Associated Public-Safety Communications Officers, Inc. (APCO) as the Convenor of an initial meeting of representatives of parties eligible for radio licensing in the FCC's Public Safety and Special Emergency Radio Services to establish a Regional Planning Committee in the State of Wisconsin (Region 45), as described herein-after), I hereby give public notice that such an initial meeting will be held on April 28, 1989 at State Patrol Headquarters District #3, Hwys 41 and 151, Fondulac, WI. beginning at 10:00AM. The Wisconsin Region is one of 48 established by the FCC, throughout the United States.

The responsibility of the Regional Planning Committee well be to develop a Plan for the use of frequencies in the 821-824 and 866-869 megahertz bands allocated by the FCC for use by such Licensees. Parties interested in participation in the regional planning process should contact me.

This Public Notice is in accordance with the FCC's Report and Order in General Docket No. 87-112 adopted by the FCC on November 24, 1987.

The Report and Order was based in large part on the Final Report of the National Public Safety Planning Advisory Committee, which was submitted to the FCC on September 9, 1987.

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

Carl R. Guse, Convener
Wisconsin Region
Dodge County Sheriff's Department
N5504 Hwy E
Iron Ridge, WI. 53035

Phone (414) 485-4455

February 17, 1989

FIRE FIGHTERS OF WI, PROFESSIONAL
23 N. PICKNEY ST
MADISON, WI 53703

WI PROFESSIONAL POLICE ASSN
7 N. PINCKNEY ST SUITE 325
MADISON, WI 53703

WI SCHOOL BUS ASSN
1015 ERIE AVE P.O. BOX 168
SHEBOYGAN, WI 53082-0168

APCO BULLETIN
P.O. BOX 669
NEW SMYRNA BEACH, FL 32070

FEDERAL COMMUNICATIONS SYSTEMS
1919 M STREET N.W.
WASHINGTON, D.C. 20554

FEDERAL BUREAU OF INVESTIGATION
517 E. WISCONSIN AVE
MILWAUKEE, WI 53201

RCR PUBLICATIONS
1728 DOWNING ST
DENVER, CO 80218

MOBILE RADIO TECHNOLOGY
P.O. BOX 12901
OVERLAND PARK, KS 6612-9981

WIS COUNTIES ASSN
802 W. BROADWAY
MADISON, WI 53701

MOTOROLA
BILL DAVIS
5302 OLSON CT.
MCFARLAND, WI 53558

MOTOROLA
BOB SCHNESE
2360 ABBEY AVE.
OSHKOSH, WI 54904

WI STATE PATROL
BRIAN HUDSON
5005 HY 53 SOUTH
EAU CLAIRE, WI 54701

WIS STATE FIRE CHIEFS ASSN
CAL PHILLIPS, SEC/TREAS
101 COURT ST
OSHKOSH, WI 54901

GREENFIELD PD
CAPT. PHIL HALL
5300 W. LAYTON AVE.
GREENFIELD, WI 53220

DODGE CO SHERIFFS OFFICE
CARL GUSE
816 S. LINCOLN AVE. #201
BEAVER DAM, WI 53916

APPLETON PD
CHARLES SAHR
222 S. WALNUT
APPLETON, WI 54911

WIS CHIEFS OF POLICE
CHIEF JEROME WOLFF
2000 N. CALHOUN RD
BROOKFIELD, WI 53005

CITY OF MILWAUKEE
CITY CLERK
ROOM 205 CITY HALL 200 E. WELLS ST
MILWAUKEE, WI 53202

DEPT. OF H&SS
CLAUDETTE HIGGINS
ONE W. WILSON ST., RM 672
MADISON, WI 53702

LAW ENFORCEMENT BULLETIN
CRIME INFORMATION BUREAU DIRECTOR
P.O. BOX 2718
MADISON, WI 53701-2718

NATIONAL COMMUNICATIONS SYSTEMS
DALE STOUFFER
ACE & SOUTH COURTHOUSE RD
ARLINGTON, VA 22204

STATE OF WI, DHSS
DAN EKLOF
P.O. BOX 309
MADISON, WI 53701

EMS, DEPT. OF H&SS
DAN EKLOF
P.O. BOX 309, 1414 E. WASHINGTON
MADISON, WI 53701

WI CHIEFS OF POLICE ASSN
DANIEL ALBEDYLL
100 EDWARD ST
FORT ATKINSON, WI 53538

IL STATE POLICE COMMISSION
DARRELL BARTZ
601 SANGAMON AVE
SPRINGFIELD, IL 62701

MI STATE POLICE COMMISSION DIVISION
DAVE HELD
714 S. HARRISON RD
EAST LANSING, MI 48823

MOTOROLA
DAVE STRAUSS
1815 WASHINGTON ST
TWO RIVERS, WI 54241

WALWORTH CO SHERIFFS OFFICE
DICK BUGGS
COURTHOUSE BLDG.
ELKHORN, WI 53121

WAUSAU POLICE DEPT.
DON PAGENKOPF
3506 SWAN AVE.
WAUSAU, WI 54401

WINNEBAGO CO SHERIFFS OFFICE
DON SLEIK
420 JACKSON
OSHKOSH, WI 54901

NORTHERN WI VETERINARY MEDICAL
DR. CATHY MILLER, SECRETARY
159A S 2 ST
MEDFORD, WI 54451-1810

NW WI VETERINARY MEDICAL ASSN
DR. DENNIS VAN ROEKEL, SECRETARY
RT 2'640 200 ST.
BALDWIN, WI 54002

SW WI VETERINARY MEDICAL ASSN
DR. JOHN SCHNELLER, SECRETARY
S11139 COUNTY C
SPRING GREEN, WI 53588

OZAUKEE-WA VETERINARY MEDICAL ASSN
DR. REBECCA ARMSTRONG, SECRETARY
P.O. BOX 793, 4860 COUNTRY AIR
CEDARBURG, WI 53012

DANE CO VETERINARY MEDICAL ASSN
DR. RENE A. CARLSON, SECRETARY
5129 UNIVERSITY AVE
MADISON, WI 53705

VETERINARY MEDICAL ASSN OF NE WI
DR. ROBERT L. MADSON, SECRETARY
1238 DELRAY DRIVE
GREEN BAY, WI 54303-1445

COULEE REGION VETERINARY MEDICAL
DR. ROBERT SPENCER, SECRETARY
W5706 HIGHWAY 33
LACROSSE, WI 54601

DODGE CO VETERINARY MEDICAL ASSN
DR. STEPHANIE ROSIN, SECRETARY
1147 BOUGHTON ST
WATERTOWN, WI 53094

GE MOBILE
DUANE McCUNE
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W. CHICAGO, IL 60185

DNR
GARY ADLER
2421 DARWIN RD.
MADISON, WI 53704

AMERICAN RED CROSS
GREATER MILW CHAPTER HDQS
2600 W. WIS AVE
MILWAUKEE, WI 53233

EMERGENCY GOVERNMENT
HARRY HILLEGAS
2309 GOVERNMENT CENTER ROOM A
MINNEAPOLIS, MN 55487-0239

WI SHERIFFS & DEPUTY SHERIFFS
JIM CARDINAL
P.O. BOX 145
CHIPPEWA FALLS, WI 54729

BROWN CO SHERIFFS DEPT
JIM CHARNESKI
300 E. WALNUT
GREEN BAY, WI 54301

WI STATE PATROL D4
JIM LOHFF
2805 MARTIN AVE.
WAUSAU, WI 54401

GREEN BAY PD
JOHN LAMPKIN
125 S. ADAMS ST
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WI VETERINARY MEDICAL ASSN
LESLIE SCHOENFELD, EXEC DIRECTOR
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GREENFIELD PD
LT. WILLIAM TIEGS
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FEDERAL EMERGENCY MANAGEMENT AGENCY
MAYNARD J. TINSMAN JR.
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APCO SPECTRUM
MICHAEL HOIER
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TOMAH, WI 54660

WAUSAU PD
MICHAEL MICHLEN
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WAUSAU, WI 54401

GENERAL ELECTRIC
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FORT ATKINSON, WI 53538

GE
PAUL JOHNSTON
210 MADISON AVE.
FORT ATKINSON, WI 53538

CALUMET CO. SHERIFF
PAUL RUSCH
206 COURT ST.
CHILTON, WI 53014

CO POLICE ASSN LIMITED, WI
PETER C. TUBBS
352 SHADY DRIVE
ONEIDA, WI 54155

WISCONSIN BELL
PETER O'KANE
125 N. EXECUTIVE DR. 2ND FLOOR
BROOKFIELD, WI

CITY OF GREEN BAY
RANDALL H. FRAILING
100 N. JEFFERSON RM 210
GREEN BAY, WI 54301

WI TOWNS ASSN, INC
RICHARD J. STADELMAN
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SHAWANO, WI 54166

GREEN BAY POLICE
RICK DEMRO
307 S. ADAMS ST.
GREEN BAY, WI 54301

STATE PATROL COMMUNICATIONS
ROBERT L. BENNETT
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MADISON, WI 53707

CITY OF APPLETON
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APPLETON, WI 54915

OUTAGAMIE CO SHERIFF
RON YOW
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APPLETON. WI 54911

BADGER SHERIFFS ASSN
SHERIFF LEROY KLEIN
123 S 5TH AVE
STURGEON BAY, WI 54235

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WOOD DALE, IL 60191

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APPLETON, WI 54911

TWO-WAY RADIO
STEVE HARMON
1241C MENOMONIE ST.
EAU CLAIRE, WI 54703

ST. CROIX CO. COMM
STEVE T'KACH
911 FOURTH ST
HUDSON, WI 54016

DEPT. OF TRANSPORTATION
TED SAVELY
800 LINCOLN WAY
AMES, IA 50010

BROWN CO SHERIFFS DEPT
TED VAN ROSSUM
300 E. WALNUT
GREEN BAY, WI 54301

BADGER FIREMENS ASSN
THE DISPATCHER
P.O. BOX 911
RANDOM LAKE, WI 53075

LEAGUE OF WI MUNICIPALITIES
THE MUNICIPALITY
122 W. WASHINGTON AVE
MADISON, WI 53703

MEDICAL SOCIETY, STATE
THOMAS L. ADAMS
330 E. LAKESIDE ST
MADISON, WI 53715

WI STATE PATROL, DIST. 3
TODD LINDERT
P.O. BOX 984
FOND DU LAC, WI 54936

WIS LAW ENFORCEMENT OFFICERS ASSN
TOM PERSCHY
7202 BERGMAN RD
SAUK CITY, WI 53583

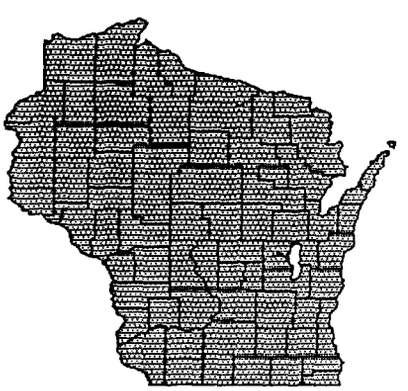
DNR
TOM TUTTLE
BOX 7921
MADISON, WI 53704

WIS BELL INC
WILLIAM M. JERMAIN JR.
14TH FLOOR, 722 N. BROADWAY
MILWAUKEE, WI 53202

WIS STATE FIREFIGHTERS ASSN
WIS FIRE JOURNAL
BOX 606, RT 3, GOLF COURSE RD
SPRING GREEN, WI 53588

APPENDIX B

Meeting Minutes



Meeting Dates

- April 28, 1989
- June 6, 1989
- July 6, 1989
- August 17, 1989
- September 20, 1989
- November 2, 1989
- February 8, 1990
- May 21, 1992

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE

The following are the minutes from the April 28, 1989 meeting of the Wisconsin 800 MHz Regional Planning Committee held at Wisconsin State Patrol Headquarters-District 3 in Fond du Lac.

Present were: Sgt. John Lampkin, Off. Dan Bennington, Green Bay Police; Capt. Phil Hall, Lt. Bill Tiegs, Greenfield Police; Robert Bennett, Richard Shulak, WSP/DOT; Rick Strauss, Milwaukee County Sheriff; Jim Charneski, Ted VanRassum, Brown County Sheriff; Don Sleik, Winnebago Sheriff; Ron Beck, Charles Sahr, Appleton Police; Michael Michlen, Wausau Police; Carl Guse, Dodge County Sheriff; Dan Eklof, DHSS & EMS; Claudette Higgins, DHSS; Dave Strauss, Bob Schnese, Bill Davis, Motorola.

The meeting was called to order by Carl Guse at 10:10AM, followed by introductions. The Wisconsin Region (Reg 45) was defined as all of the state excluding the following counties: Kenosha, Milwaukee, Dodge, Washington, Walworth, Jefferson, Racine, Ozaukee, Waukesha, Dane and Rock. These counties are part of the Southern Lake Michigan Region.

Election of the Regional Chairman--Qualities of the chairman should be that he have commitment from his employer, able to travel and also have the funding for expenses such as mailings, etc. Nominations from the floor were taken. John Lampkin from Green Bay Police Dept. and Richard Shulak were nominated. A vote was taken by the show of hands with Richard Shulak receiving the majority. Richard Shulak was installed as the Chairman of the Wisconsin 800 MHz Regional Planning Committee.

Election of the Regional Secretary--Qualities of the secretary should be that the person work closely with the chairman, having access to a word processor, preferably DisplayWrite 3 or 4, able to travel and have the time. The secretary would be responsible for generating the final version of the Wisconsin plan and take meeting notes. They may delegate or seek volunteers. Dick Buggs volunteered. Richard Shulak and Carl Guse decided that a talent search should be conducted to try and find someone who is part of the Wisconsin Region. Dick works for the Walworth County Sheriffs Office which is not part of the Wisconsin region. A talent search will be conducted between now and the next meeting. An attempt will be made to finalized the Secretary's position at the next meeting.

The following documents were then handed out: FCC Docket 87-112, NPSPAC Minutes, Public Safety Radio Communication Plan, and an 800 MHz paper written by Richard Shulak.

Discussion was then turned over to the chairman. Mr. Shulak gave a short history of why the Regional Planning Committees were formed. He also related the progress of the Southern Lake Michigan 800 MHz Regional Planning Committee.

The formation of sub-committees was then presented. These committees would be based on the Regional Planning Tasks as outlined in the Communications Plan handout. A motion from the floor for the formation of 3 committees; Administrative, Operational, and Technical was passed.

Tasks as listed in the outline were then assigned to different committees. To the administrative committee--Tasks 1 (Short and Long Term Planning), 3 (Review Process), 4 (Application Procedure and Evaluation) and 6 (Existing Frequency Policy);
To the operational committee--Task 2 (Regional Interoperability); and to the technical committee--Tasks 5 (Spectrum Efficiency) and 7 (Digital Voice Encryption). It was suggested that the committees meet before the main meeting and present their reports at the main meeting. An explanation of the tasks of each committee was given following the outline provided in the PUBLIC SAFETY RADIO COMMUNICATIONS NATIONAL PLAN handout.

The roster was passed around so everyone could list their preference for committee assignments. It was recommended that if a department has more than one representative, they each work on a different committee. The committee chairmen would be chosen after the committee meets.

The next meeting is scheduled for JUNE 6, 1989, 1:00PM at District 6, WSP in Eau Claire. The committees will meet at 11:00AM, followed by lunch at Noon, and have the main meeting at 1:00PM.

Meeting notices will be posted in the Law Enforcement Bulletin and at the Chiefs and Sheriffs Association meeting.

Meeting adjourned at 11:55AM.

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE

MINUTES

The second meeting of the 800 MHz regional planning committee was held at Eau Claire Tuesday June 6, 1989. The standing committees met at 11:00AM to discuss the manner in which committees would report to the general committee. The consensus was that items deferred from the main meeting would be discussed during the 30 days between regular meetings. Decisions would then be brought to the main body for approval. This being the only matter before the committees, the committees adjourned at 11:35AM.

The main meeting started at 1:00PM. As there is no secretary at this time, I asked for volunteers to record the minutes. Mr. Ron Yow of Outagamie Co. "volunteered".

A call was made for volunteers for the Secretary's job. The secretary should have access to a word processor, DISPLAYWRITE 3 or 4 are preferred. There were no volunteers and the search for a secretary will continue.

A presentation by Mr. John Haugen of Motorola, Inc. followed. The subject was 800 MHz trunking systems in general and Motorola's implementation of 800 MHz in particular. A video tape titled "SMARTNET TRUNKING" was shown. John also provided a handout titled "Trunking Basics". A lively question and answer period evolved. The group spent over two hours grasping the concepts associated with 800 MHz trunking.

The group was reminded that hand outs were available covering the NPSPAC meetings, FCC Docket 87-112 and the Public Safety National Plan.

Members requested that an attendance sheet, a list of committee members and a mailing list in general accompany the minutes. The mailing list will be expanded to include each and every Sheriff's Department with the exception of those eleven counties in the Southern Lake Michigan Region.

The next meeting was set for District 4 headquarters in Wausau on July 6, 1989.
There will NOT be committee meeting prior to the general meeting. The General meeting will start at 1:00PM.

Motion to adjourned passed at 3:30 PM.

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE
Wausau, WI
July 6, 1989

AGENDA

CALL TO ORDER (Richard Shulak)

Approval of Minutes

INTRODUCTIONS

ELECTION OF REGIONAL SECRETARY

REPORT ON ADJACENT AREAS

Southern Lake Michigan Regional RCRC Meeting of June 28. (Carl Guse-Richard Shulak)

Explanation of frequency sort procedure (Carl Guse)

Minnesota Meeting Notice (Richard Shulak)

PRESENTATION BY GENERAL ELECTRIC
(Duane McCune and Bill Henderickson)
Q & A Period

DISTRIBUTION OF BACKGROUND DOCUMENTS

FCC Docket 87-112
NPSPAC Minutes
Public Safety Radio Communication Plan
Southern Lake Michigan 800 MHz Regional Plan

Committee Assignments of Tasks for Developing the Wisconsin Plan

Pages 1 thru 17	Administrative
Pages 18 thru 22	Operational
Pages 23 thru 25	Technical
Pages 27 thru 31	Operational

NEXT MEETING TIME AND PLACE

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE
CORRECTED MEETING MINUTES

The Wisconsin 800 MHz Regional Planning Committee met at Wisconsin State Patrol District #4 Headquarters in Wausau, Wisconsin on July 6, 1989. The meeting of the Committee of the Whole was called to order by Chairman Shulak at 1:05p.m. Agendas were passed out to all present.

First order of business was the reading of the minutes of the last meeting in Eau Claire by the Chair, since no permanent Secretary had been named. John Lampkin moved, and Dan Ecklof seconded that the minutes be accepted as read. Motion carried.

Introductions followed. Among those present were representatives of both Motorola C & E, Inc. and the General Electric Company.

A call for nominations for the Regional Secretary was made and there being no response, an offer by Richard Buggs of Walworth County to act as Secretary for the group was accepted. Mr. Buggs was nominated by Dan Eklof. Call for additional names was made by Chairman Shulak. There being no more names submitted, Mr. Eklof moved and Mr. Lampkin seconded that Mr. Buggs' election be by unanimous ballot. Motion carried.

A report by the Chair on the recently published frequency sort and assignments for the Southern Lake Michigan Region followed. Chairman Shulak and Carl Guse explained the methodology and reasoning behind the sort and assignments. Discussion ensued on the report and the status of adjacent regions, such as Minnesota. Excerpts from the Minnesota region's meeting notice were presented. Bill Davis suggested we request Steve T'Kach attend the next Minnesota meeting as our representative.

Chairman Shulak named committee chair appointees. Don Sleik was appointed as Administrative chair, Dan Eklof as Technical chair and John Lampkin as Operational chair. Each was presented with a portion of the existing Southern Lake Michigan plan to review as core information for their plan documents.

After a short break in the meeting, and the Motorola representatives left our group, a presentation by the General Electric Company of their Trunking Systems and ancillary equipment followed. The General Electric Company presentation was made by Mr. Duane McCune of the Chicago office. A question and answer period followed.

Upon completion of the General Electric presentation, Chairman Shulak charged the various committees with a rework

of the Lake Michigan documents, to allow us to utilize as much of their verbiage as possible to complete our plan. The intent was that each committee chair report back next meeting, on what revisions they feel should be made, to create a germane plan for the Wisconsin Region. The presentations then can be discussed and adapted or revised as required with input from the various committee members. A brief discussion was held on the FCC Docket and History of the creation of the Planning groups by the FCC for new members who had questions on the matter.

Finally, the NEXT MEETING DATE is set for THURSDAY, 17 August, 1989, at Wisconsin State Patrol Headquarters, District #3, in Fon Du Lac. It was agreed the the General Meeting should commence at 1:00p.m.. The conference room is reserved all day should the committees find it necessary to meet in the morning.

Meeting adjourned at 3:30p.m..

Respectfully submitted
Richard E. Buggs, Secretary

WISCONSIN 800MHz
REGIONAL PLANNING COMMITTEE

AGENDA

AUGUST 17, 1989

CALL TO ORDER (RICHARD SHULAK)

APPROVAL OF MINUTES

INTRODUCTIONS

NATIONAL APCO CONFERENCE REPORT

STATUS OF ADJACENT STATES

REPORT BY COMMITTEES

- A) ADMINISTRATIVE
- B) OPERATIONAL
- C) TECHNICAL

OLD BUSINESS

NEW BUSINESS

NEXT MEETING TIME AND PLACE

ADJOURN

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE
MEETING MINUTES

The Wisconsin 800 MHz Regional Planning Committee held its scheduled August meeting at Wisconsin State Patrol District #3 Headquarters in Fond du Lac, Wisconsin on August 17, 1989. The general meeting of the Committee of the Whole was called to order by Chairman Shulak at 1:00 p.m. Agendas were passed out to those present.

First order of business was the reading of the minutes of the last meeting at Wausau by the Chair. Upon the reading, corrections as to the meeting date and transposition of committee chairman for the Administrative and Operational committees were offered. The minutes as corrected from the floor were then accepted upon motion of Carl Guse, seconded by Don Sleik.

Introductions followed. New participants, Paul Rusch of the Calumet County Sheriff's Department and Paul Johnston, the recently appointed Wisconsin representative of General Electric joining the nine other members present.

A report on the National APCO conference at Sparks, Nevada was given by Carl Guse. Carl emphasized the information presented during the general session by Beverly Baker and Ralph Haller of the Commission and others during this and other meetings in respect to Regional Plans and frequency allocation procedures in particular. It was stressed that each regional group make every effort to foster participation by all eligibles in its boundaries.

Next order of business was committee reports. Don Sleik outlined his groups status and their decision to replace the survey used by the Southern Lake Michigan Region with a history and outline of methods used in notification of eligibles plus comments on the general response throughout the region. Comment was made on making more local presentations to groups such as the Sheriff's and Chiefs of Police and Fire on the state level. Support at our local level by federal agencies should be solicited. It was noted APCO will assist with publication and distribution of regional plans to insure public access. Our group apparently can charge for the costs of printing and postage for plan distribution, it was reported. An outline of support information for the plan document was given to the Secretary by Mike Michlein.

Dan Eklof, chair of the Technical committee reported on a minor change in the verbiage of his draft plan portion.

John Lampkin of the operations group covered changes in their text. A draft copy of John's changes will follow shortly, it being compiled and typed in the near future by John. Upon receipt of the text, it will be incorporated into the computer generated draft to be distributed to the membership.

Under Old Business, Carl Guse reviewed Docket 89-112 and called attention to the contents required in a regional plan document. Discussion ensued among the members.

As an order of New Business, an explanation of the new sort form, criteria required for the sort and methods of laying out the various areas for accurate sort was given. It was noted that one sort is made at no cost, so it is necessary to be realistic in our layout. County level sorts and how to accurately layout certain areas was discussed at length.

Bob Schnese of the Administrative committee, raised the possibility of deferring the selection of the Regional Plan Review Committee to a later date.

Carl Guse reported his new address, good for the next several months as:

Carl Guse
816 South Lincoln Avenue
Apt #201
Beaver Dam, Wisconsin 53916
Telephone: (414) 885-4450

Final order of business was selection of the NEXT MEETING DATE, set for Wednesday, 20 September, 1989, at the same location, Wisconsin State Patrol Headquarters, District #3, in Fond Du Lac. Again the General Meeting shall commence at 1:00 p.m. The conference room is reserved for all day, for committee use as may be necessary.

Meeting Adjourned at 2:40 p.m.

Respectfully submitted
Richard E. Buggs, Secretary

WISCONSIN 800MHz
REGIONAL PLANNING COMMITTEE

AGENDA

SEPTEMBER 20, 1989

CALL TO ORDER (RICHARD SHULAK)

APPROVAL OF MINUTES

INTRODUCTIONS

STATUS OF ADJACENT STATES

REPORT BY COMMITTEES

A) ADMINISTRATIVE

B) OPERATIONAL

C) TECHNICAL

OLD BUSINESS

Reading of Wisconsin 800 MHz Plan — Richard Buggs
Method of defining areas of coverage
Involvement of users in the planning process

NEW BUSINESS

NEXT MEETING TIME AND PLACE

ADJOURN

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE MEETING MINUTES

September 20, 1989

The Wisconsin 800 MHz Regional Planning Committee held its scheduled September meeting, at Wisconsin State Patrol District #3 Headquarters in Fond du Lac, Wisconsin on 20 September, 1989. The general meeting of the Committee of the Whole was called to order by Chairman Shulak at 1:00 p.m.

Agendas were passed out to those present.

First order of business was the presentation of the minutes of the last meeting in Fond du Lac by the Chair. It was moved by Don Sleik and seconded by Carl Guse that the minutes be accepted as presented. The motion was passed unanimously.

Introductions were dispensed with as there were no new members present.

Report on status of the adjacent States revealed that Minnesota's meeting this month falls on todays date and that Minnesota seems to have accelerated their planning process. It is hoped that our representative to their group will keep us advised of their status. Carl Guse suggested we send along to Minnesota a copy of the proposed Wisconsin frequency assignments. These follow generally the Southern Lake Michigan outline and it is proposed that Wisconsin promote them across their area. The Chair will see that Iowa, Michigan and Minnesota are advised.

Iowa's planning status has been a question and Chairman Shulak will also establish a more expeditious line of communication with Iowa and Michigan to insure we do not miss, nor do they miss our meeting notices.

No Sub-committee reports were presented, due to the late date of the last draft of the plan. Draft copies were passed out at todays meeting.

Criticism of the late distribution of the draft by the Chair led to the establishment of a schedule to match input and output dates to the work schedules and vacations of the members. It is anticipated that this will correct the problem and allow us to schedule meetings in a timely manner.

Reading of the Plan was deferred since there were several changes to the text made during this session. Further, it may be that certain verbiage in the administrative portion will undergo change by Mike Michlein so that it will read more comfortably. These changes will be incorporated as soon as possible and the redrawn draft distributed for members to review prior to October 1st, 1989 if at all possible.

Questions again arose on methodology and actual preparation of the areas to be presented for frequency sort. Dave Strauss of Motorola C. & E., Inc. offered to try his Engineering Department's patience and solicit their help in adjusting the sort criteria. He hopes to be able to have their yes or no answer by the week of October 7th, 1989. If Dave's people are unable to help us, due to time constraints, then he will try to gather information on the method they used to establish sort areas in the eleven Southeastern Wisconsin counties that reside in the Southern Lake Michigan Region. We can then apply similar logic to our efforts.

There being no new business, the date for the next meeting was set for Thursday, 2 November, 1989, again at Wisconsin State Patrol, District #3 Headquarters in Fond du Lac. Location being generally determined by those in attendance and their location in relation to Fond du Lac as a central point.

Motion to adjourn was tendered by Carl Guse seconded by Don Sleik and passed unanimously at 2:30 p.m.

Respectfully Submitted
Richard E. Buggs, Secretary

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE MEETING MINUTES

The Wisconsin 800 MHz Regional Planning Committee held its scheduled November meeting, at Wisconsin State Patrol District #3 Headquarters in Fond du Lac, Wisconsin on 02 November, 1989. The general meeting of the Committee of the Whole members present was called to order at 1:00 PM by Carl Guse, Wisconsin APCO Convenor, acting as chairman upon request of Chairman Richard Shulak who was unexpectedly detained in Wausau.

The first order of business was the reading and approval of the minutes of the last meeting, by unanimous vote.

There being no introductions or other immediate business, the committee proceeded with its agenda intent of reading the Wisconsin Plan and any revision of verbiage required. Several changes were made to more fully reflect actual events as they occurred in historical and organizational documentation of plan development. Similarly there were minor changes and additions in the text to define intent and provide fully accurate descriptions, such as the addition of the mandated CTCSS code in table #2.

Upon conclusion of the review of the Plan and Preface, it was moved by Don Sleik and seconded by Bob Schnese, that the committee attempt to have the FCC Private Radio Bureau Staff review a preliminary draft of the plan, prior to final submission to insure its ability to withstand full formal action by the Commission.

Moving on, Dave Strauss of Motorola introduced Stanley Payne, engineer from Motorola C & E, Inc. who will be conducting the frequency sort for the Wisconsin Region. After thanks for the use of his good offices were given by the committee, Mr. Payne went on to explain how the sort would be conducted, how the counties involved would be sectioned (if required) and what other criteria may bear on his work. Members present were also provided with illustrations of the 821 MHz Band channel spacing, with Mutual Aid channel and Encryption channel requirements showing by way of explanation of channel spacing criteria. Mr. Payne went on to outline the sort data he uses. Radius of any operating area for the sort, should not exceed 25 miles maximum distance from its center and not extend beyond 3.0 miles into any adjacent operating area. In cases where large or odd shaped geographic areas require subdivision, then all subdivided areas radius should be the identical.

Based upon the foregoing information, and Mr. Payne's concern that the initial sort at a minimum of 5 frequencies for per assignment might not allow our allotted free sort to be completed, it was discussed and moved, that the sort criteria be amended as follows;

Based upon the Wisconsin Department of Administration, Bureau of Demographics - 1/1/89 Report and using the figures estimated for the year 2005...Sort shall be conducted with channel allocations set as;

1. Assignment Areas with Populations of less than 10,000 be allotted Two (2) channels.

2. Assignment Areas with Populations of 10,000 and up to 25,000 be allotted Three (3) channels.

3. Assignment Areas with Populations of 25,000 and up to 50,000 be allotted Four channels.

4. Assignment Areas with Populations of 50,000 and up to 100,000 be allotted Five (5) channels.

5. Assignment Areas with over 100,000 Population shall be allowed One (1) additional channel, to the Five (5) shown above, for each additional 25,000 people.

Mr. Payne appeared to be more than satisfied with these criteria, and by unanimous agreement the motion to implement passed.

Finally, Carl Guse reported upon a telephone call from Steve T'Kach who has been maintaining our liaison with the Minnesota planning region. Steve reports that they are behind us in the planning process, and he will forward us information on their status. Steve apologized for not being able to attend, however he wished to keep us abreast of developing events in the Minnesota Region.

Weather permitting, the next scheduled meeting was tentatively set for 14 December, 1989 at 1:00PM again in Fond du Lac at Wisconsin State Patrol District #3 Headquarters.

Motion to adjourn by Bill Davis passed at 2:30PM.

Respectfully submitted

Richard E. Buggs, Secretary

MEETING NOTICE

WISCONSIN 800 MHZ

REGIONAL PLANNING COMMITTEE

The meeting scheduled for Thursday, January 25, 1990 was cancelled due to inclement weather. The new meeting date is **Thursday, February 8, 1990.** The meeting will start at 1:00PM at State Patrol District Three Headquarters Fond du Lac located at Hwys 151 and 41. The large conference room in the basement will be available all day should any committees wish to make use of the facility.

Agenda items at this time include:

I. A review of the Wisconsin Regional Plan.

At the conclusion of the meeting, it is hoped that the narrative portion of the plan will be ready for submittal to the FCC.

II. Modifications to the Geographic and channel assignments prior to asking for the CET frequency sort.

The channel assignment information received from Stan Payne include assignments to the eleven South Eastern Wisconsin counties included in the Southern Lake Michigan region. These assignments need to be modified to reflect the actual planned usage of frequencies in those counties. This will mean a change in available channels for the rest of Wisconsin. Your input at this time is critical.

Agenda items can be added at any time. I am available at (608) 267-9799 Monday through Friday from 8:00AM to 4:30PM.

Richard J. Shulak, P.E.
Chairman
Wisconsin 800 MHz
Regional Planning Committee

WISCONSIN 800 Mhz REGIONAL PLANNING COMMITTEE
MEETING MINUTES

The Wisconsin 800 Mhz Regional Planning Committee held its scheduled February meeting, at Wisconsin State Patrol District #3 Headquarters in Fon du Lac, Wisconsin on 08 February, 1990. The general meeting of the Committee of the Whole members present was called to order at 1:00PM by Chairman Richard Shulak.

The first order of business was introductions by all present. There were several new members and observers on hand.

Second order of business was the reading of minutes of the November regular meeting. The Chairman, upon the reading of Novembers minutes, placed a discussion of the preliminary plan submittal resolution in the immediate agenda for this meeting. Motion to approve minutes as read, was was made by John Lampin and seconded by Paul Johnston, approval was unamious.

Subsequently, a briefing on the work session, held on January 25, 1990, after the scheduled meeting was cancelled due to weather, was given for information purposes.

A report on the Southern Lake Michigan Regional Conformance Review Committee was given by Carl Guse to the committee. Comments for the benefit of new members present, on that region's plan and its status were offerred by the Chairman, by way of historical review of that region's activities to date and their inter-relation to ours.

No reports were presented from the standing committees, as the bulk of their charged work is substantially complete. Information was not available from Minnesota on the plan status on this date, either mail or personally presented. A copy of the Michigan plan was made available for members inspection. Some concerns expressed by members on inspection of the document will be addressed.

Discussion ensued on several items, including a letter from National APCO, relating to FCC's desire, for verbage changes, in existing plans, as well as new plans, for "Slow Growth" implementation of frequencies.

Furthur discussion, upon the preliminary frequency sort by Mr. Stanley Payne of Motorola, was initiated. This information was discussed and several changes made to more fully reflect the Region's members views on frequency assignment needs beyond those produced during initial sort.

The Michigan plan and its allocation scheme produced comments, however it appears their allocation may bear on Canada's projected uses. Bill Teigs, City of Greenfield PD expressed concern with FCC interoperability channels and his concerns were addressed with information at hand.

Final copy plan submission for an informal FCC staff review, might be an alternative, provided it will not delay the formal submission of our plan to the Commission. It was suggested by new member, Peter Kane of Wisconsin Bell, that a working relationship with FCC staff is to our

mutual advantage, and should be developed.

Moving next to the establishment of a Regional Conformance Review Committee, it was decided that this committee consist of a maximum of seven members. The Regional Chairman, APCO Frequency Advisor, plus five additional members from eligible entities in the region, being initially selected from a group of volunteers, by the Committee of the Whole, subsequently to be selected by the RCRC. Initial appointments included Col. Don Pagenkopf of Marathon County O.E.G and the Adjutant General's Office of the Wisconsin Department of Military Affairs. We welcome his participation as it is one of our objectives to serve all eligibles, on all levels in the planning process.

Finally, the Iowa Region requests a copy of our plan on Computer disk, which will be provided by your Secretary, upon final draft.

Weather permitting, the next scheduled meeting was tentatively set for 15 March, 1990 at 1:00PM again in Fon du Lac at Wisconsin State Patrol District #3 Headquarters.

There being no other business, motion to adjourn at 4:00PM.

Respectfully submitted

Richard E. Buggs, Secretary

Final Meeting Notice
Wisconsin 800 Megahertz
Regional Planning Committee

There will be a final acceptance meeting of the Wisconsin 800 MHz Planning Committee on May 21, 1992. The meeting will begin at 10:00 a.m. at State Patrol District Three Headquarters in Fond Du Lac (Hwys 151 and 41) in the large conference room in the basement.

Agenda items at this time include:

I. Review and acceptance of the Wisconsin 800 MHz Regional Plan.

II. Set first meeting date of the Regional Plan Review Committee (RPRC).

A copy of the Wisconsin 800 MHz Regional Plan will be sent to you upon request. Otherwise, plans will be available at the meeting.

Agenda items can be added at any time. I am available at (608)267-9799 Monday through Friday from 8:00 a.m. to 4:30 p.m.

Richard J. Shulak, P.E.
Chairman
Wisconsin 800 MHz
Regional Planning Committee

AGENDA

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE

MAY 21, 1992

10:00AM CALL TO ORDER

INTRODUCTIONS

SIGN UP SHEETS

HISTORY

RPRC (SEE APPENDIX D)

REVIEW OF PLAN

APPROVAL

ADJOURN

WISCONSIN 800 Mhz REGIONAL PLANNING COMMITTEE
MEETING MINUTES

May 21, 1992

The Wisconsin 800 Mhz Regional Planning Committee held its noticed general meeting, May 21, 1992, at Wisconsin State Patrol District #3 Headquarters in Fond du Lac, Wisconsin. The meeting was called to order at 10:00 AM by Chairman Shulak.

Agendas were passed out to those present.

First Order of Business was the reading of the minutes of the last meeting. No additions or corrections were offered and a motion by Michael Michlein, seconded by Don Pagenkopf to adopt and make a part of the official record was passed by unanimous vote.

Introductions followed, with the Chair requesting that all present make sure they sign up on the sheets provided for the record.

A brief discourse on the history of our plan and its relationship to those of the surrounding states, with the only State still being in doubt being Minnesota.

The next order, was the discussion of the makeup and verbiage of the
Plan's Appendix "D", outlining the makeup and governing the meetings of the Regional Plan Review Committee, (RPRC) who will be charged with general operation of the Plan. Changes in the Appendix verbiage and meeting spacing were discussed, with suggested changes
to be incorporated in Appendix "D" of the Plan's final publication were accepted upon motion of Don Pagenkopf, seconded by Michael Michlein, and adopted by unanimous vote of the members present.

Carl Guse, Wisconsin APCO Frequency Advisor, noted that his address was now N6377 Woodridge Lane in Beaver Dam, rather than that shown in the record. It was noted that the record reflected the addresses of those members upon the date noted thereon and that further changes were not necessary.

Review of the Plan as published for submittal with the changes was taken up as the next order of business. The only changes suggested other than in Appendix "D" were in the Frequency Sort listings, with Claudette Higgins suggesting the addition of Tabs to make it easier to locate the various portions of the sort data. Carl Guse suggested addition of a page listing certain frequencies reserved for special use after page 120. Change of the present question mark which the sort produced on each State of Wisconsin frequency, to the actual State of Wisconsin labeled designation was recommended.

Actual allocation and the spacing of the Plan related channels to pre-existing frequencies and cellular telephone channels was explained to the members after questions from Don Pagenkopf.

Dave Straus of Motorola inquired as to what his immediate course of action would be to continue planning for Sheboygan County's system. He was advised that the pool frequencies will not be assigned other than as the plan indicates, but he should continue with his initial processing, since those frequencies are available to all users in the Sheboygan County area.

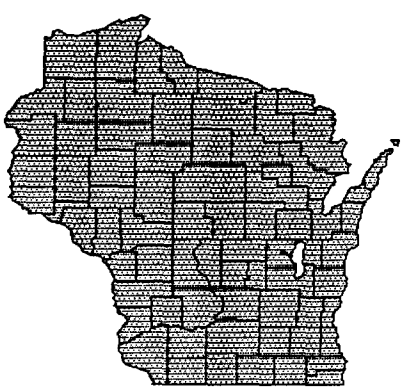
There being no other discussion on the Plan or any of its Appendices motion to accept the complete document for submittal to the FCC was offered by Ron Yow and seconded by Claudette Higgins. Motion adopted by unanimous vote of the members present.

There being no other business, a motion to adjourn tendered by Michael Michlein and seconded by Carl Guse, was adopted by unanimous vote. Meeting adjourned at 10:50 AM.

Respectfully submitted
Richard E. Buggs, Secretary

APPENDIX C

Attendees



WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE PLEASE SIGN IN April 28, 1989

NAME	AGENCY	ADDRESS	CITY	ZIP	TELEPHONE	COMMITTEE
Lt John Tompkins	Green Bay Police	307 So Adams St.	Green Bay	54301	414 436-3368	O
Off. Dan Bennington	GBPD	" "	" "	"	" "	
Lt Bill Tiegs	P.D. GREENFIELD	5300 W LAYTON AVE	GREENFIELD	53220	414 281-9480	
CAPT PHIL HALL	"	"	"	"	"	
Bob Bennett	WSP/DOT	POB 7912 Madison 53707	Madison	53707	608 266-0137	
Rick STRAUSS	MILWCOUNTY	821 W. STATE ST. MIL Rm 204	MILWAUKEE	53233	4142784858	
*Jim Charneski	BCSD	300 E. Walnut	Green Bay	54301	4144363314	A
*Don Sleik	Winnebago WISO	420 Jackson	Oshkosh	54901	4142364900	A
*Ted VanRossum	BCSD.	300 E. WALNUT GR. BAY	Green Bay	54301	414-436-3313	T
*Todd LINDERT	WSP D-3	P.O. Box 484	Fond du Lac	54936	414-929-3700	O
Dick Buggs	WAL CO SHF	COURTHOUSE BLDG COJALC	ELKHORN	53121	414-741-4485	
Ron Beck	City of APPLETON	2625 E. GLENDALE AVE APPLETON, WI	APPLETON	54915	414-832-6015	

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE PLEASE SIGN IN April 28, 1989

NAME	AGENCY	ADDRESS	CITY	ZIP	TELEPHONE	COMMITTEE
* MICHAEL MICHLEN	WAUSAU T.D.	610 FIFTH ST.	WAUSAU	54401	(715) 842-2055	ADMIN ~~[illegible]~~
CARL GUSE	DODGE CO.	N5504 Hwy E	IRON RIDGE	53035	414-485-4455	
Richard Shulak	DOT WISCONSIN	N6966 Newport Rd	Lake Mills	53551	608 267-9963	
CHARLES SAHR	Appleton PD	222 S. WALNUT	Appleton	54911	414 830-5500	
* DAN EKLOF	STATE OF WI DHSS EMS	P.O. BOX 309 ~~[illegible]~~ 1414 E. WASHINGTON.	MADISON	53701	608 266-0471	T
* Claudette Higgins	State of WI. DHSS	1 W. Wilson St., Rm. 672 Madison, WI 53702	Madison	53702	608 267-7299	A
DAVE STRAUSS	MOTOROLA C+E INC	1815 WASHINGTON STREET	TWO RIVERS	54241	414 794-8941	T
* BOB SCHNESE	MOTOROLA C+E, INC	2360 ABBEY AVENUE	OSHKOSH	54904	414 426-0883	A [redacted]
✓ BILL DAVIS	MOTOROLA C+E, INC	5302 OLSON COURT	MCFARLAND	53558	608 838-4432	A

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE PLEASE SIGN IN June 6, 1989

NAME	AGENCY	ADDRESS	CITY	ZIP	TELEPHONE	COMMITTEE
STEVE HARMON	TWO-WAY RADIO	1241 C MENOMONIE ST EAU CLAIRE, WI 54703	EAU CLAIRE	54703	715-832-3202	
BOB SCHNESE	MOTOROLA	2360 ABBEY AVENUE OSHKOSH WI 54904	OSHKOSH	54904	414-426-0883	ADMIN.
PAUL MARSHALL	MOTOROLA	1000 MITTEL DR. WOODDALE, IL 60191			312-350-3714	
BILL DAVIS	Motorola	5302 OLSON CT. McFARLAND, WI. 53558	McFarland	53558	608-838-4132	Admin.
TED VAN ROSSUM	BROWN CO SHERIFF	300 E WALNUT ST. GREEN BAY 54301	GREEN BAY	54301	414-436-3393	TECH.
DAVE [illegible]	[illegible]	[illegible]	TWO RIVERS	54241	414-794-8941	TECH.
DAN EKLOF	STATE OF WI DHSS EMS	P.O. BOX 309 MADISON WI 53701	MADISON	53701	608 266-0471	TECH
CARL GUSE	DODGE COUNTY	N5504 Hwy E	Iron Ridge	53035	414-485-4455	OP
DON SLEIK	Winnebago County	420 Jackson St OSHKOSH, WI 54901	OSHKOSH	54901	414-236-4900	ADM
RON YOW	OUTAGAMIE COUNTY SHERIFF	410 S. WALNUT ST. APPLETON, WI 54911	Appleton	54911	414/832-5605	
STEPHEN J. TKACH	St. Croix County ECC	911 4th Street Hudson WI 54016	Hudson	54016	715-386-2345	
GARY ADLER	DNR	2421 Darwin Rd MADISON, WI 53704	MADISON	53704	608-246-3997	

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE PLEASE SIGN IN June 6, 1989

NAME	AGENCY	ADDRESS	CITY	ZIP	TELEPHONE	COMMITTEE
x Brian D. [illegible]	[illegible]	5005 [illegible] 53 [illegible] Eau Claire Wi 54701	Eau Claire	54701	839-3800	

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE PLEASE SIGN IN July 6, 1989

NAME	AGENCY	ADDRESS	CITY	ZIP	TELEPHONE	COMMITTEE
DAN EKLOF	DHSS	P.O. BOX 309	MADISON	53701	266-0471	T
TOM TUTTLE	DNR	BOX 7921 ~~2921~~	MADISON	53704	608 246-7995	
DUANE MCCUNE	GE MOBILE	31W007 NORTH AVE.	W. CHICAGO	60185	312 293-6708	
DICK BYERS	WAL CO, WI	COURTHOUSE ELKHORN SHERIFF'S DEPT	ELKHORN	53121	414 741-4415	Secty
DAVID STRAUSS	MOTOROLA	1815 WASHINGTON ST	TWO RIVERS	54241	414 794-8941	T
MATT DELL	GE Mobile	31W007 North Ave	W. Chicago	60185	312 293-6708	
BILL DAVIS	Motorola	6323 ODANA Rd	MADISON	53719	608-271-6[illegible]	A.
DON PAGENKOPF	WAUSAU POLICE DEP	3506 SWAN AVE	WAUSAU	54401	715-842-0[illegible] 715-359-6267	
MICHAEL MICHLEIN	WAUSAU POLICE COMM. DEPT	610 FIFTH STREET	WAUSAU	54401	715-845-1423 715-842-2055	
John Lampkin	Green Bay Police	307 So Adams St.	Green Bay	54301	414-436-3368	O
RANDALL H. FRAILING	City of Green Bay Comm. + Elect	100 N. Jefferson Rm 210	Green Bay	54301	414 497-4359	T
RICK DEMKO	GREEN BAY POLICE	307 S. ADAMS ST	GREEN BAY	54301	414 436-3841	

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE PLEASE SIGN IN July 6, 1989

NAME	AGENCY	ADDRESS	CITY	ZIP	TELEPHONE	COMMITTEE
[illegible] Jim Lolli[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
Bob Schnese	Motorola	2360 Abbey Avenue	Oshkosh	54904	(414) 426-0885	Admin
Don Sleik	Winnebago Sheriff	420 ~~400~~ Jackson St	Oshkosh	54901	414 236-4938	Admin
Carl Guse	Dodge County	141 N Main	Juneau	53039	414-386-2727	

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE PLEASE SIGN IN August 17, 1989

NAME	AGENCY	ADDRESS	CITY	ZIP	TELEPHONE	COMMITTEE
Dick Buggs	Walworth County, Wi	Courthouse Bldg County Jail	Elkhorn	53121	(414) 741-4425	Secy
John Lampkin	Green Bay Police	307 So Adams St GB	Green Bay	54301	(414) 436-3368	Operations
Dave Strauss	Motorola	1815 Washington St. Two Rivers, WI 54241	Two Rivers WI	54241	414 794-8941	Technical
Don Sleik	Winnebago County Sheriff	420 Jackson St	Oshkosh	54901	414 236-4938	Adm
Carl Guse	Freq Coord	816 S. Lincoln #201	Beaver Dam	53916	414-885-4450	Op
PAUL JOHNSTON	G.E.	210 MADISON AVE.	FT. ATKINSON	53538	414-563-9441	
PAUL RUSCH	Calumet Co. Sheriff	206 Court St.	Chilton	53014	414-849-2335	N/A
MICHAEL MICHLEN	WAUSAU P.D.	610 FIFTH ST	WAUSAU	54401	842-2055	ADMIN
[illegible]	OUTAGAMIE Co. So.	410 S. WALNUT ST	Appleton	[illegible]	[illegible]	[illegible]
BOB SCHNESE	MOTOROLA	2360 ABBEY AVE	OSHKOSH	54901	[illegible]	ADMIN.
DAN EKLOF	STATE OF WI DHSS	P.O. BOX 304	MADISON	53701	608 266-0471	TECH.

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE PLEASE SIGN IN Sept 20,1989

NAME	AGENCY	ADDRESS	CITY	ZIP	TELEPHONE	COMMITTEE
Don Sleik	Winn Co Shf					
PAUL JOHNSTON	G.E.	* (PLEASE ADD TO MAILING LIST) 210 MADISON AVE	FORT ATKINSON	53538	414 569-9441	
Carl Guse	APCO Freq. Advisor	816 S Lincoln 201	Beaver Dam	53916	414 885-4450	
Dick Bugge	Walw. Co Shf.	Courthouse Bldg Elkhorn	Elkhorn	53121	414 741-4425	
Dave Travis	Motorola C+E	1815 Washington St.	Iron Rivers	54941	414 794-8941	T

WISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE PLEASE SIGN IN February 8, 1990

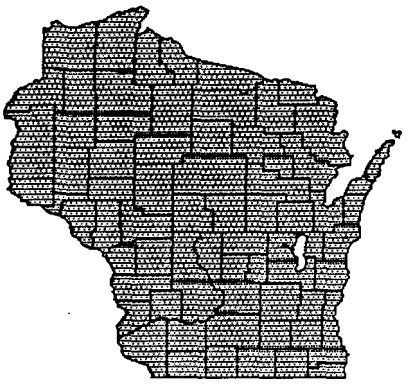
NAME	AGENCY	ADDRESS	CITY	ZIP	TELEPHONE	COMMITTEE
Richard Biggs	WCSO	Courthouse - Elkhorn Wal Co Shfs Dept	Elkhorn	53121	(414)-741-4400	Secy
Donald Pogentkopf	WAUSAU POLICE	3506 SWAN AVE WAUSAU, WI 54401	WAUSAU	54401	715-3546261 715 8422055	
Sgt. Mike Thorne	F.D.L. Co. Shiff. dept	180 S. Macy St. Fond du Lac, Wis.	Fond du Lac	54935	414-929-3390	
Dave Strauss	Motorola	1315 Washington St. Two Rivers, WI	Two Rivers	54241	414-794-8941	T
Lt. Ron Nelson	GBPD	307 S. Adams St. Green Bay Wis 54301	Green Bay	54301	436-3841	
Deputy Chief Wayne Bastian	GBPD	"	"	"	436-3837	
Sgt. John [illegible]	GBPD	"	"	"	[illegible]	O
Paul Johnston	G.E.	210 MADISON AVE. FT. ATKINSON, WI 53538	FT. ATKINSON	53538	414-563-9441	
Peter O. Kane	Wisc. Bell	2nd floor 125 N. EXECUTIVE DR.	BROOKFIELD	53005	414 7971043	add to mailing lis
Carl Druse	APCO Freq Coord	816 S. Lincoln Ave #201	Beaver Dam	53916	414-885-4450	O
Bill Tiegs	GREENFIELD P.D.	5300 W. LAYTON AVE	GREENFIELD	53220	414-281-9480	
Neal Sieglaff	State Patrol B.O.C.	429 Western Ave	FdL	54935	414-929-3707	

ISCONSIN 800 MHz REGIONAL PLANNING COMMITTEE PLEASE SIGN IN MAY 21, 1992

NAME	AGENCY	ADDRESS	CITY	ZIP	TELEPHONE	COMMITTEE
Tom Maloney	[illegible]	117 W Pleasant	[illegible]	537[illegible]	608 242 2[illegible]	WCPA
Rick Briggs	Walworth Co Sheriff	Courthouse	Elkhorn	53121	414 741-4425	[illegible] Planning
Dave [illegible]	MOTOROLA	2456 So 18th Street	Manitowoc	54220	414 684-5100	Tech
[illegible]	State of WI DHSS	1 W. Wilson Rm 672 [illegible]	Madison	53702	(608) 267-7299	—
Michael G. Micklein	Wausau Fire Dept	[illegible] 5th Street	Wausau	54401	(715) [illegible]	[illegible] Planning
[illegible] Pagenkopf	[illegible] Wausau Police Dept	3506 [illegible] AVE	Wausau	54401	842-0841	
Neal J Sieglaff	Bur of Comm. State Patrol	PO BOX 984	Fond du Lac	54936	(414) 929-3700	—
Ron [illegible]	Outagamie Co	410 S Walnut St.	Appleton	54911	414/832-56[illegible]	—
[illegible]	[illegible]	507 N [illegible] St	Green Bay	54301	414-448-3162	Gen'l Planning
[illegible]	WSP	4802 Sheboygan Ave [illegible]	Madison	53707	608 266-[illegible]	
Carl Guse	APCO Freq. Advisor	N6377 Woodridge Ln	Beaver Dam	53916	414 885-4450	
[illegible]	Wis DOT	P.O. Box 7912	Madison	53707	608 [illegible]	—

APPENDIX D

Regional Plan Review Committee



REGIONAL PLAN REVIEW COMMITTEE

The Regional Plan Review Committee (RPRC) will consist of seven members: the Regional Chairman, the Frequency Advisor, the chairs of the Region's Administrative, Operational and Technical Committees and two additional members. The Regional Planning Review Committee shall meet at least once a year and shall meet within three months of receiving an application from the frequency advisor. The RPRC shall meet within three months of FCC approval of this plan at which time by-laws shall be established.

The Committee Members at the time this plan is submitted are:

Richard J. Shulak, P.E.
Chairman, Wisconsin Regional Planning Committee
P.O. Box 7912
Madison, WI. 53707-7912
(608) 267-9799

Carl Guse
Wisconsin Frequency Coordinator
N6377 Woodridge Lane
Beaver Dam, WI 53916
(414) 885-4450
(414) 885-4452 FAX

Sgt. John Lampkin
Chairman, Operations Committee
307 S. Adams St.
Green Bay, WI. 54301
(414) 436-3368

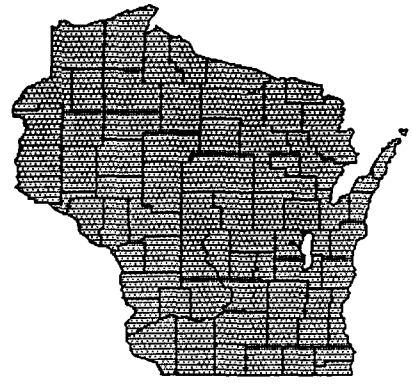
Sgt. Donald Sleik
Chairman, Administrative Committee
420 Jackson St.
Oshkosh, WI. 54901
(414) 236-4938

Dan Eklof
Chairman, Technical Committee
P.O. Box 309
Madison, WI. 53701
(608) 266-0471

Col. Donald Pagenkopf
3506 Swan Ave.
Wausau, WI 54401
(715) 842-0841

APPENDIX E

Application Evaluation Criteria



APPLICATION EVALUATION CRITERIA

CATEGORY WEIGHTS

1. SERVICE: 0 to 100 POINTS

Eligible services have been grouped into the following three priority levels. Each level has a predetermined maximum number of points associated with it. In the case of a "multiple-service" system, the application must state the number of mobiles assigned to each service. The percentages resulting from these totals will determine the total number of points awarded.

PRIORITY LEVEL I: MAXIMUM OF 100 POINTS

Public Safety Radio Service Licenses providing protection of life and property.

PRIORITY LEVEL II: MAXIMUM OF 65 POINTS

Public Safety Radio Licenses providing protection of property only.

PRIORITY LEVEL III: MAXIMUM OF 35 POINTS

Special Emergency Radio Service Licenses

2. SYSTEM TYPE: 0 to 50 Points

From 0 to 50 points can be earned in this category based on the degree of spectrum efficiency demonstrated for the system. The more spectrum efficient a system is, the more points the application earns.

Information relating to the system's technology such as trunked or conventional operation and voice and/or data usage must be provided. The narrative should also discuss how utilization of these features will result in an efficient use of the spectrum. Furthermore, details regarding any other enhancements to the system must be provided. The application must also state whether the system is being proposed as a single agency-single service, a multiple agency-single service or a multiple agency-multiple service operation.

3. INTERSYSTEM OPERABILITY: 0 to 100 POINTS

An application will be awarded from 0 to 50 based on its description of how the 800 MHz mobile radios will maintain and/or increase mutual aid capabilities. The fact that the five common frequencies are included in a plan earns no points as this

is a mandate of the National Plan. However, an applicant may earn up to 50 additional points on the initial and all subsequent applications for including fixed equipment necessary for the operation of the common channels in a specific area(s) of the Region.

4. CHANNEL LOADING FACTORS: 10 to 50 POINTS

Applications will receive between 10 and 50 points for proposing a number of mobile units that meet the Channel Loading Requirements mandated by this plan. Consideration will take into account the feasibility of operating the number of mobiles proposed.

5. COVERAGE AREA: 10 to 50 POINTS

Scoring in this category will be based on two factors:

1. Compliance with the parameters described in the TECHNICAL DESIGN CONSIDERATIONS of this plan.

2. Channel reuse potential.

6. VACATED FREQUENCIES RETURNED: 0 TO 100 POINTS

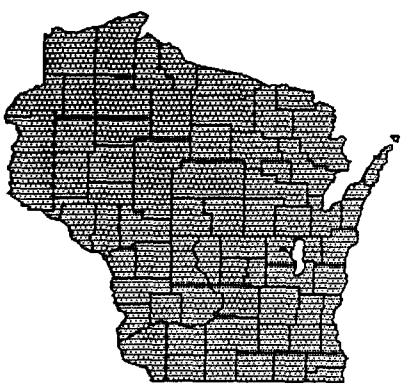
The applicant will earn from 0 to 100 points depending on the number of vacated frequencies returned and the availability of the frequency(s) for reuse.

7. IMPLEMENTATION SCHEDULE: 0 TO 50 POINTS

The degree of budgetary commitment and the implementation dates will be evaluated. The more explicit an application is, the more points it will earn.

APPENDIX F

Spectrum Allocation Methodology



INITIAL SPECTRUM ALLOCATION

FREQUENCY SORTING METHODOLOGY

INTRODUCTION

The initial spectrum allocation for The Region was determined by a computerized process performed by C.E.T., Inc. of New Smyrna Beach, Florida. The objectives of the computer program were two fold:

I. The assignments must be made in a manner which results in a high degree of spectrum efficiency.

II. The assignments must be made in a manner which results in a low probability of co-channel and adjacent channel interference.

Since the desired output is a geographic sorting of frequencies, defining geography must be part of the input. A list of the number of channels or frequencies desired for the Wisconsin Region was submitted to C.E.T. on a county by county basis. In addition, 66 channels were reserved for Statewide implementation. These 66 channels were also assigned for Statewide use on a shared basis in the FCC approved plan for the Southern Lake Michigan Region (Region 54). It is the intent of the immediately adjacent States (Wisconsin, Illinois, Indiana and Michigan) to continue the State shared frequency implementation.

Acceptable interference probabilities were determined. Frequency assignments for the region were made taking into account the Statewide frequency plan mentioned above and the issues of efficiency and minimal interference.

GEOGRAPHIC AREA

For the purposes of the frequency sort, a geographic area is defined as one or more circles. The circle(s) should include the entire area of the eligibles geopolitical boundary and not extend more than three miles past said boundary.

The procedure involved obtaining the necessary maps, outlining the areas of coverage needed, and fitting that area into a series of circles defined by coordinates and radius.

ENVIRONMENT

Four categories of terrain were defined:

I. URBAN A built up city containing large buildings.

II. SUBURBAN A city or highway with scattered building and/or trees.

III. OPEN An area where no obstacles such as tall trees or buildings exist.

IV. SEMI_OPEN An area between suburban and open

BLOCKED CHANNELS

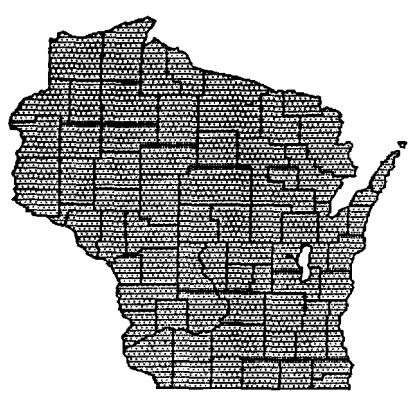
In addition to the 66 channels defined for statewide use, five additional mutual aid channels must be eliminated from the resource pool. These region wide mutual aid channels are identified by FCC channel number.

TRANSMITTER COMBINING

To insure that proper separation is maintained between any two channels at one site, a minimum of 250 kHz spacing was mandated at each site. This will allow the efficient combining of multiple transmitters on one antenna.

APPENDIX G

Frequency Assignments



Channel Assignment # 1

GREEN

FCC assignment # 703 Frequency assignment # 78

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	108	703	211	14.07
ASHLAND	134	703	239	15.94
BROWN	138	703	139	9.32
WOOD	174	703	118	7.91
LANGLADE	239	703	171	11.42

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	14	702	114	7.61
CHIPPEWA	98	702	177	11.84
FOND DU LAC	153	702	87	5.81
DOUGLAS	201	702	270	18.04

Channel Assignment # 2

GREEN

FCC assignment # 613 Frequency assignment # 12

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	111	613	211	14.07
BROWN	141	613	139	9.32
ONEIDA	245	613	202	13.50

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN LAKE	63	612	77	5.16
MENOMINEE	78	614	163	10.88
CRAWFORD	80	612	71	4.75
CLARK	92	612	137	9.18
RUSK	117	614	205	13.72
BUFFALO	228	614	147	9.81

Channel Assignment # 3

GREEN

FCC assignment # 640 Frequency assignment # 27

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	107	640	211	14.07
WOOD	173	640	118	7.91
VILAS	185	640	231	15.44
DOUGLAS	202	640	270	18.04
OCONTO	213	640	164	10.99

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	13	641	114	7.61
CHIPPEWA	99	641	177	11.84

Channel Assignment # 4

GREEN

FCC assignment # 680 Frequency assignment # 55

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	22	679	55	3.69
MANITOWAC	41	679	129	8.64
MARATHON	70	679	153	10.24
BROWN	142	681	139	9.32
WOOD	171	681	118	7.91

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Channel Assignment # 5

IOWA

FCC assignment # 615 Frequency assignment # 14

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CALUMET	44	615	117	6.94
MARINETTE	253	615	180	10.64

Adjacent channel assignment(s)

Name	Channel	FCC	Separation	D to R

	Assignment #	Channel #	(mi)	Ratio
WAUSHARA	60	616	81	4.00
MENOMINEE	78	614	151	8.90
RUSK	117	614	175	10.33
BARRON	119	616	179	10.56
BUFFALO	228	614	112	6.60
LANGLADE	238	616	154	9.06

Channel Assignment # 6

IOWA

FCC assignment # 721 Frequency assignment # 84

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CALUMET	43	721	117	6.94
DUNN	102	721	152	8.98
LINCOLN	175	721	154	9.08

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	23	722	44	2.59
KEWAUNEE	27	720	157	9.24
SHAWANO	58	722	139	8.19
PORTAGE	68	720	100	5.90
JACKSON	88	722	90	5.30
VILAS	184	722	208	12.25
BAYFIELD	235	722	230	13.57

Channel Assignment # 7

IOWA

FCC assignment # 643 Frequency assignment # 30

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN LAKE	64	643	70	4.16
JACKSON	90	643	90	5.30
PRICE	251	643	169	9.99
BURNETT	257	643	209	12.34

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	74	644	129	7.63

DUNN	183	644	152	8.98
PIERCE	192	642	155	9.14
VERNON	218	644	45	2.68
BAYFIELD	236	642	230	13.57
FOREST	243	642	184	10.87

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Channel Assignment # 8

RICHLAND

FCC assignment # 719 Frequency assignment # 82

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	34	719	120	8.61
BARRON	120	719	149	10.68
FOREST	241	719	168	12.05

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
KEWAUNEE	27	720	156	11.19
PORTAGE	68	720	85	6.12
ADAMS	204	718	43	3.13
BUFFALO	229	718	82	5.91

Channel Assignment # 9

RICHLAND

FCC assignment # 607 Frequency assignment # 6

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	51	607	97	6.93
SHAWANO	57	607	124	8.90
ASHLAND	133	607	186	13.29
FOND DU LAC	152	607	89	6.36

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	179	12.82
KEWAUNEE	28	606	156	11.19
ST CROIX	105	608	146	10.45
LINCOLN	176	606	131	9.41
PIERCE	198	606	125	8.98

DOUGLAS	200	600	210	15.00
ADAMS	205	606	43	3.13
DOOR	210	600	170	12.19
FOREST	244	600	160	12.05

Channel Assignment # 10

RICHLAND

FCC assignment # 697 Frequency assignment # 72

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
BARRON	122	697	149	10.68

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	32	696	120	8.61
EAU CLAIRE	52	698	97	6.93
CLARK	93	696	80	5.78
WINNEBAGO	157	698	98	7.02
LINCOLN	177	698	131	9.41
DOOR	206	698	170	12.19

****

Channel Assignment # 11

LA CROSSE

FCC assignment # 611 Frequency assignment # 10

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
DUNN	101	611	73	4.91
VILAS	183	611	157	10.53
OCONTO	214	611	156	10.44

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	39	610	161	10.79
GREEN LAKE	63	612	99	6.65
FLORENCE	76	610	181	12.12
CRAWFORD	80	612	38	2.56
CLARK	92	612	52	3.52
BAYFIELD	234	610	163	10.89

Channel Assignment # 12

LA CROSSE

FCC assignment # 731 Frequency assignment # 94

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
FLORENCE	77	731	181	12.12
POLK	127	731	115	7.68
BROWN	136	731	152	10.19
TAYLOR	182	731	89	5.96

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MENOMINEE	79	730	134	8.94
ASHLAND	132	730	150	10.03
SHEBOYGAN	149	730	154	10.27
WOOD	170	730	58	3.92
GRANT	188	730	63	4.24
PIERCE	193	730	76	5.10

Channel Assignment # 13

LA CROSSE

FCC assignment # 641 Frequency assignment # 28

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CHIPPEWA	99	641	75	5.02

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	3	640	114	7.61
ST CROIX	107	640	97	6.47
WOOD	173	640	58	3.92
VILAS	185	640	157	10.53
PIERCE	192	642	76	5.10
DOUGLAS	202	640	166	11.09
OCONTO	213	640	156	10.44
BAYFIELD	236	642	163	10.89
FOREST	243	642	159	10.62

Channel Assignment # 14

LA CROSSE

FCC assignment # 702 Frequency assignment # 77

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CHIPPEWA	98	702	75	5.02
FOND DU LAC	153	702	117	7.86
DOUGLAS	201	702	166	11.09

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	1	703	114	7.61
ST CROIX	108	703	97	6.47
ST CROIX	112	701	97	6.47
ASHLAND	134	703	150	10.03
BROWN	138	703	152	10.19
BROWN	143	701	152	10.19
WOOD	174	703	58	3.92
SAUK	223	701	49	3.32
LANGLADE	239	703	126	8.42

Channel Assignment # 15

LA CROSSE

FCC assignment # 661 Frequency assignment # 48

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUPACA	163	661	107	7.19

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	109	660	97	6.47
WOOD	172	660	58	3.92
PIERCE	194	662	76	5.10
OCONTO	215	660	156	10.44
FOREST	242	662	159	10.62

Channel Assignment # 16

LA CROSSE

FCC assignment # 729 Frequency assignment # 92

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	25	729	134	8.96
WINNEBAGO	158	729	120	8.01
DOOR	207	729	182	12.19

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWOC	38	728	161	10.79
MENOMINEE	79	730	134	8.94
CRAWFORD	81	728	38	2.56
CLARK	95	728	52	3.52
ST CROIX	106	728	97	6.47
ASHLAND	132	730	150	10.03
SHEBOYGAN	149	730	154	10.27
MARQUETTE	168	728	81	5.45
WOOD	170	730	58	3.92
GRANT	188	730	63	4.24
PIERCE	193	730	76	5.10
LANGLADE	237	728	126	8.42

****

Channel Assignment # 17

LAFAYETTE

FCC assignment # 619 Frequency assignment # 18

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARQUETTE	169	619	78	6.54
PRICE	249	619	193	16.13

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
POLK	129	618	211	17.64

Channel Assignment # 18

LAFAYETTE

FCC assignment # 700 Frequency assignment # 75

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
TRENPEALEAU	48	700	115	9.58
PORTAGE	66	700	121	10.12
RUSK	118	700	197	16.44
MARINETTE	254	700	198	16.50

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	40	699	144	12.00
ST CROIX	112	701	192	16.06
POLK	124	699	211	17.64
BROWN	143	701	151	12.63
SAUK	223	701	42	3.50
JUNEAU	227	699	74	6.17

Channel Assignment # 19

LAFAYETTE

FCC assignment # 727 Frequency assignment # 90

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
TRENPEALEAU	46	727	115	9.58
SAWYER	114	727	218	18.21
WAUPACA	166	727	128	10.74
MARINETTE	255	727	198	16.50

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	38	728	144	12.00
CRAWFORD	81	728	47	3.90
CLARK	95	728	130	10.91
CHIPPEWA	96	726	167	13.92
ST CROIX	106	728	192	16.06
IRON	130	726	235	19.61
BROWN	144	726	151	12.63
MARQUETTE	168	728	78	6.54
SAUK	224	726	42	3.50
LANGLADE	237	728	175	14.61

****

Channel Assignment # 20

COLUMBIA

FCC assignment # 650 Frequency assignment # 37

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	37	650	77	6.42

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
POLK	125	649	190	15.86
GRANT	187	649	61	5.10

Channel Assignment # 21

COLUMBIA

FCC assignment # 617 Frequency assignment # 16

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
BROWN	139	617	82	6.86
TAYLOR	180	617	126	10.57
PEPIN	232	617	136	11.40

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	60	616	43	3.66
BARRON	119	616	169	14.16
POLK	129	618	190	15.86
LANGLADE	238	616	114	9.53

Channel Assignment # 22

COLUMBIA

FCC assignment # 679 Frequency assignment # 54

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	41	679	77	6.42
MARATHON	70	679	98	6.56

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

GREEN	4	680	55	3.69
EAU CLAIRE	54	678	115	9.65
DOOR	209	678	119	9.92

Channel Assignment # 23

COLUMBIA

FCC assignment # 722 Frequency assignment # 85

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
SHAWANO	58	722	94	7.85
JACKSON	88	722	75	6.26
VILAS	184	722	176	14.70
BAYFIELD	235	722	209	17.46

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	6	721	44	2.59
CALUMET	43	721	61	5.10
WAUSHARA	61	723	43	3.66
DUNN	102	721	150	12.53
RUSK	116	723	156	13.02
SHEBOYGAN	151	723	59	4.96
LINCOLN	175	721	122	10.21
PIERCE	197	723	159	13.30

****

Channel Assignment # 24

WASHBURN

FCC assignment # 606 Frequency assignment # 5

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
KEWAUNEE	28	606	220	15.73
LINCOLN	176	606	97	6.96
PIERCE	198	606	75	5.43
ADAMS	205	606	148	10.58

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	9	607	179	12.82
OUTAGAMIE	31	605	186	13.35

TRENPEALEAU	47	605	92	6.60
EAU CLAIRE	51	607	76	5.44
SHAWANO	57	607	148	10.62
IRON	131	605	73	5.23
ASHLAND	133	607	52	3.76
FOND DU LAC	152	607	204	14.63
GRANT	190	605	197	14.10

Channel Assignment # 25

WASHBURN

FCC assignment # 729 Frequency assignment # 92

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	16	729	134	8.96
WINNEBAGO	158	729	190	13.60
DOOR	207	729	215	15.40

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	38	728	226	16.19
MENOMINEE	79	730	151	10.82
CRAWFORD	81	728	172	12.31
CLARK	95	728	81	5.81
ST CROIX	106	728	57	4.12
ASHLAND	132	730	52	3.76
SHEBOYGAN	149	730	233	16.65
MARQUETTE	168	728	173	12.40
WOOD	170	730	118	8.44
GRANT	188	730	197	14.10
PIERCE	193	730	75	5.43
LANGLADE	237	728	124	8.87

Channel Assignment # 26

WASHBURN

FCC assignment # 626 Frequency assignment # 25

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LINCOLN	178	626	97	6.96
GRANT	189	626	197	14.10

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	30	625	186	13.35
TRENPEALEAU	49	625	92	6.60
EAU CLAIRE	53	627	76	5.44
SHAWANO	56	627	148	10.62
ASHLAND	135	627	52	3.76
FOND DU LAC	154	627	204	14.63
SAUK	221	625	170	12.19

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Channel Assignment # 27

KEWAUNEE

FCC assignment # 720 Frequency assignment # 83

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PORTAGE	68	720	86	7.25

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	6	721	157	9.24
RICHLAND	8	719	156	11.19
OUTAGAMIE	34	719	35	2.76
CALUMET	43	721	34	3.50
DUNN	102	721	200	17.41
BARRON	120	719	200	17.41
LINCOLN	175	721	100	10.89
FOREST	241	719	80	8.06

Channel Assignment # 28

KEWAUNEE

FCC assignment # 606 Frequency assignment # 5

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	220	15.73
LINCOLN	176	606	100	10.89
PIERCE	198	606	227	28.48
ADAMS	205	606	103	12.98

Adjacent channel assignment(s)

Name	Channel	FCC	Separation	D to R

	Assignment #	Channel #	(mi)	Ratio
RICHLAND	9	607	156	11.19
OUTAGAMIE	31	605	35	2.76
TRENPEALEAU	47	605	182	18.26
EAU CLAIRE	51	607	168	16.88
SHAWANO	57	607	43	3.96
IRON	131	605	160	16.87
ASHLAND	133	607	173	17.37
FOND DU LAC	152	607	53	5.31
GRANT	190	605	173	17.39

Channel Assignment # 29

KEWAUNEE

FCC assignment # 691 Frequency assignment # 66

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUPACA	164	692	59	4.98
VERNON	217	692	147	18.41
ONEIDA	248	692	105	8.81
PRICE	250	690	143	13.82

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Channel Assignment # 30

OUTAGAMIE

FCC assignment # 625 Frequency assignment # 24

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
TRENPEALEAU	49	625	141	10.89
SAUK	221	625	89	6.88

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	26	626	186	13.35
PORTAGE	69	624	45	3.52
POLK	123	624	199	15.33
SHEBOYGAN	146	624	50	3.85
LINCOLN	178	626	79	6.13
GRANT	189	626	139	10.76

Channel Assignment # 31

OUTAGAMIE

FCC assignment # 605 Frequency assignment # 4

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
TRENPEALEAU	47	605	141	10.89
IRON	131	605	139	10.76
GRANT	190	605	139	10.76

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	186	13.35
KEWAUNEE	28	606	35	2.76
PORTAGE	65	604	45	3.52
POLK	126	604	199	15.33
SHEBOYGAN	150	604	50	3.85
LINCOLN	176	606	79	6.13
PIERCE	190	606	186	14.38
ADAMS	205	606	63	4.88
SAUK	220	604	89	6.88

Channel Assignment # 32

OUTAGAMIE

FCC assignment # 696 Frequency assignment # 71

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CLARK	93	696	100	7.72

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	10	697	120	8.61
GREEN LAKE	62	695	46	3.56
MONROE	85	695	103	7.98
DUNN	104	695	168	12.96
BARRON	122	697	171	13.20

Channel Assignment # 33

OUTAGAMIE

FCC assignment # 647 Frequency assignment # 34

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MONROE	84	647	183	7.98
BARRON	121	647	171	13.20

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PORTAGE	67	648	45	3.52
CRAWFORD	82	646	137	10.58
CLARK	94	646	100	7.72
SHEBOYGAN	147	646	50	3.85
BUFFALO	230	648	155	12.00
ONEIDA	247	646	88	6.83

Channel Assignment # 34

OUTAGAMIE

FCC assignment # 719 Frequency assignment # 82

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	8	719	120	8.61
BARRON	120	719	171	13.20
FOREST	241	719	75	5.80

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
KEWAUNEE	27	720	35	2.76
PORTAGE	68	720	45	3.52
ADAMS	204	718	63	4.88
BUFFALO	229	718	155	12.00

Channel Assignment # 35

OUTAGAMIE

FCC assignment # 652 Frequency assignment # 39

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
SAUK	222	652	89	6.88

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
FOND DU LAC	155	653	42	3.26

Channel Assignment # 36

OUTAGAMIE

FCC assignment # 717 Frequency assignment # 80

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MONROE	83	717	103	7.98
POLK	128	717	199	15.33
ONEIDA	246	717	88	6.83

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	75	716	57	3.81
GRANT	191	716	139	10.76
ADAMS	204	718	63	4.88
BUFFALO	229	718	155	12.00
PEPIN	231	716	160	12.31

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Channel Assignment # 37

MANITOWAC

FCC assignment # 650 Frequency assignment # 37

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	20	650	77	6.42

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
POLK	125	649	238	19.86
GRANT	187	649	152	12.72

Channel Assignment # 38

MANITOWAC

FCC assignment # 728 Frequency assignment # 91

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CRAWFORD	81	728	155	12.90
CLARK	95	728	136	11.30
ST CROIX	106	728	231	19.26
MARQUETTE	168	728	72	6.01
LANGLADE	237	728	86	7.21

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	16	729	161	10.79
LAFAYETTE	19	727	144	12.00
WASHBURN	25	729	226	16.19
TRENPEALEAU	46	727	174	14.52
SAWYER	114	727	188	15.74
WINNEBAGO	158	729	35	2.95
WAUPACA	166	727	59	4.96
DOOR	207	729	38	3.25
MARINETTE	255	727	60	5.05

Channel Assignment # 39

MANITOWAC

FCC assignment # 610 Frequency assignment # 9

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
FLORENCE	76	610	116	9.68
BAYFIELD	234	610	218	18.18

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	11	611	161	10.79
MONROE	86	609	132	11.04
CHIPPEWA	97	609	173	14.45
DUNN	101	611	205	17.13
WAUPACA	165	609	59	4.96
VILAS	183	611	145	12.09
OCONTO	214	611	44	3.73

Channel Assignment # 40

MANITOWAC

FCC assignment # 699 Frequency assignment # 74

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
POLK	124	699	238	19.86
JUNEAU	227	699	188	9.04

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	18	700	144	12.00
TRENPEALEAU	48	700	174	14.52
EAU CLAIRE	52	698	165	13.78
PORTAGE	66	700	80	6.74
RUSK	118	700	178	14.86
WINNEBAGO	157	698	35	2.95
LINCOLN	177	698	117	9.78
DOOR	206	698	38	3.25
MARINETTE	254	700	60	5.05

Channel Assignment # 41

MANITOWAC

FCC assignment # 679 Frequency assignment # 54

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	22	679	77	6.42
MARATHON	70	679	96	6.46

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	4	680	129	8.64
EAU CLAIRE	54	678	165	13.78
DOOR	209	678	38	3.25

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Channel Assignment # 42

CALUMET

FCC assignment # 656 Frequency assignment # 43

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARQUETTE	167	655	53	5.38
DOOR	208	655	53	5.39

Channel Assignment # 43

CALUMET

FCC assignment # 721 Frequency assignment # 84

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	6	721	117	6.94
DUNN	102	721	186	15.52
LINCOLN	175	721	103	10.34

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	23	722	61	5.10
KEWAUNEE	27	720	34	3.50
SHAWANO	58	722	43	3.98
PORTAGE	68	720	61	5.14
JACKSON	88	722	112	9.41
VILAS	184	722	139	12.73
BAYFIELD	235	722	204	20.48

Channel Assignment # 44

CALUMET

FCC assignment # 615 Frequency assignment # 14

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	5	615	117	6.94
MARINETTE	253	615	69	6.98

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	60	616	40	4.03
MENOMINEE	78	614	50	5.85

RUSK	117	614	161	13.44
BARRON	119	616	192	16.02
BUFFALO	228	614	171	17.15
LANGLADE	238	616	79	7.99

Channel Assignment # 45

CALUMET

FCC assignment # 694 Frequency assignment # 69

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
TAYLOR	179	694	125	10.48
ADAMS	203	694	74	7.41
BURNETT	256	694	218	21.87

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN LAKE	62	695	41	4.18
MONROE	85	695	114	11.41
DUNN	104	695	186	15.52
GRANT	186	693	135	13.57
OCONTO	212	693	46	4.67
PEPIN	233	693	176	17.67

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Channel Assignment # 46

TRENPEALEAU

FCC assignment # 727 Frequency assignment # 90

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	19	727	115	9.58
SAWYER	114	727	90	7.51
WAUPACA	166	727	114	9.56
MARINETTE	255	727	164	16.48

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	38	728	174	14.52
CRAWFORD	81	728	54	5.45
CLARK	95	728	33	2.83
CHIPPEWA	96	726	35	3.56

ST CROIX	106	720	99	5.43
IRON	130	726	124	12.45
BROWN	144	726	159	15.93
MARQUETTE	168	720	95	9.56
SAUK	224	726	67	6.77
LANGLADE	237	720	112	11.26

Channel Assignment # 47

TRENPEALEAU

FCC assignment # 605 Frequency assignment # 4

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	31	605	141	10.89
IRON	131	605	124	12.45
GRANT	190	605	81	8.10

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	92	6.60
KEWAUNEE	28	606	182	18.26
PORTAGE	65	604	85	7.13
POLK	126	604	75	7.52
SHEBOYGAN	150	604	168	16.82
LINCOLN	176	606	90	9.03
PIERCE	198	606	46	4.61
ADAMS	205	606	70	7.10
SAUK	220	604	67	6.77

Channel Assignment # 48

TRENPEALEAU

FCC assignment # 700 Frequency assignment # 75

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	18	700	115	9.58
PORTAGE	66	700	85	7.13
RUSK	118	700	66	5.51
MARINETTE	254	700	164	16.48

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

MANITOWAC	40	699	174	14.52
ST CROIX	112	701	59	5.43
POLK	124	699	75	7.52
BROWN	143	701	159	15.93
SAUK	223	701	67	6.77
JUNEAU	227	699	58	5.82

Channel Assignment # 49

TRENPEALEAU

FCC assignment # 625 Frequency assignment # 24

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	30	625	141	10.89
SAUK	221	625	67	6.77

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	26	626	92	6.60
PORTAGE	69	624	85	7.13
POLK	123	624	75	7.52
SHEBOYGAN	146	624	168	16.82
LINCOLN	178	626	90	9.03
GRANT	189	626	81	8.18

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Channel Assignment # 50

EAU CLAIRE

FCC assignment # 724 Frequency assignment # 87

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OCONTO	211	724	130	13.01
JUNEAU	226	724	56	5.70

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	61	723	88	8.85
MARATHON	72	725	48	3.25
ST CROIX	110	725	45	4.16
RUSK	116	723	50	4.25
SHEBOYGAN	151	723	165	16.51

FOND DU LAC	156	725	132	13.22
PIERCE	197	723	37	3.00
DOUGLAS	199	725	100	10.87

Channel Assignment # 51

EAU CLAIRE

FCC assignment # 607 Frequency assignment # 6

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	9	607	97	6.93
SHAWANO	57	607	100	9.14
ASHLAND	133	607	95	9.54
FOND DU LAC	152	607	132	13.22

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	76	5.44
KEWAUNEE	28	606	168	16.00
ST CROIX	105	608	45	4.16
LINCOLN	176	606	69	6.97
PIERCE	198	606	37	3.00
DOUGLAS	200	608	100	10.87
ADAMS	205	606	70	7.01
DOOR	210	608	170	17.00
FOREST	244	608	123	12.33

Channel Assignment # 52

EAU CLAIRE

FCC assignment # 698 Frequency assignment # 73

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WINNEBAGO	157	698	123	12.40
LINCOLN	177	698	69	6.97
DOOR	206	698	170	17.00

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	10	697	97	6.93
MANITOWAC	40	699	165	13.78
BARRON	122	697	44	3.71

POLK	124	699	59	5.92
JUNEAU	227	699	56	5.70

Channel Assignment # 53

EAU CLAIRE

FCC assignment # 627 Frequency assignment # 26

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
SHAWANO	56	627	100	9.14
ASHLAND	135	627	95	9.54
FOND DU LAC	154	627	132	13.22

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	26	626	76	5.44
LINCOLN	178	626	69	6.97
GRANT	189	626	115	11.59

Channel Assignment # 54

EAU CLAIRE

FCC assignment # 678 Frequency assignment # 53

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
DOOR	209	678	170	17.00

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	22	679	115	9.65
MANITOWAC	41	679	165	13.78
MARATHON	70	679	48	3.25

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Channel Assignment # 55

SHAWANO

FCC assignment # 654 Frequency assignment # 41

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
FOND DU LAC	155	653	64	5.90
MARQUETTE	167	655	67	6.12
DOOR	208	655	42	3.88

Channel Assignment # 56

SHAWANO

FCC assignment # 627 Frequency assignment # 26

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	53	627	100	9.14
ASHLAND	135	627	108	9.91
FOND DU LAC	154	627	64	5.90

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	26	626	148	10.62
LINCOLN	178	626	38	3.54
GRANT	189	626	146	13.33

Channel Assignment # 57

SHAWANO

FCC assignment # 607 Frequency assignment # 6

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	9	607	124	8.90
EAU CLAIRE	51	607	100	9.14
ASHLAND	133	607	108	9.91
FOND DU LAC	152	607	64	5.90

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	148	10.62
KEWAUNEE	28	606	43	3.96
ST CROIX	185	608	162	14.79
LINCOLN	176	606	38	3.54

PIERCE	198	606	159	14.58
DOUGLAS	200	608	164	14.91
ADAMS	205	606	60	5.54
DOOR	210	608	42	3.88
FOREST	244	608	45	4.15

Channel Assignment # 58

SHAWANO

FCC assignment # 722 Frequency assignment # 85

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	23	722	94	7.85
JACKSON	88	722	82	6.87
VILAS	184	722	80	7.30
BAYFIELD	235	722	140	12.76

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	6	721	139	8.19
CALUMET	43	721	43	3.98
WAUSHARA	61	723	49	4.53
DUNN	102	721	139	11.62
RUSK	116	723	100	8.35
SHEBOYGAN	151	723	72	6.58
LINCOLN	175	721	38	3.54
PIERCE	197	723	159	14.58

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Channel Assignment # 59

WAUSHARA

FCC assignment # 689 Frequency assignment # 64

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PRICE	250	690	101	9.24

Channel Assignment # 60

WAUSHARA

FCC assignment # 616 Frequency assignment # 15

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
BARRON	119	616	139	11.65
LANGLADE	238	616	70	7.05

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	5	615	81	4.80
COLUMBIA	21	617	43	3.66
CALUMET	44	615	40	4.03
BROWN	139	617	50	5.02
TAYLOR	180	617	86	7.24
PEPIN	232	617	116	11.65
MARINETTE	253	615	87	8.79

Channel Assignment # 61

WAUSHARA

FCC assignment # 723 Frequency assignment # 86

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RUSK	116	723	118	9.86
SHEBOYGAN	151	723	56	5.64
PIERCE	197	723	142	14.25

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	23	722	43	3.66
EAU CLAIRE	58	724	88	8.85
SHAWANO	58	722	49	4.53
JACKSON	88	722	51	4.28
VILAS	184	722	132	12.85
OCONTO	211	724	65	6.59
JUNEAU	226	724	29	2.97
BAYFIELD	235	722	169	16.98

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Channel Assignment # 62

GREEN LAKE

FCC assignment # 695 Frequency assignment # 70

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MONROE	85	695	70	7.04
DUNN	104	695	155	12.93

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	32	696	46	3.56
CALUMET	45	694	41	4.18
CLARK	93	696	87	7.29
TAYLOR	179	694	112	9.34
ADAMS	203	694	29	3.73
BURNETT	256	694	196	24.58

Channel Assignment # 63

GREEN LAKE

FCC assignment # 612 Frequency assignment # 11

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CRAWFORD	80	612	89	11.15
CLARK	92	612	87	7.29

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	2	613	77	5.16
LA CROSSE	11	611	99	6.65
DUNN	101	611	155	12.93
ST CROIX	111	613	181	16.48
BROWN	141	613	58	7.27
VILAS	183	611	149	13.56
OCONTO	214	611	78	7.86
ONEIDA	245	613	119	9.94

Channel Assignment # 64

GREEN LAKE

FCC assignment # 643 Frequency assignment # 30

Cochannel assignment(s)

Name	Channel	FCC	Separation	D to R

	Assignment #	Channel #	(mi)	Ratio
IOWA	7	643	70	4.16
JACKSON	90	643	78	6.50
PRICE	251	643	125	11.45
BURNETT	257	643	196	24.50

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	74	644	73	4.91
DUNN	103	644	155	12.93
PIERCE	192	642	168	21.06
VERNON	218	644	64	8.11
BAYFIELD	236	642	195	19.50
FOREST	243	642	113	11.37

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Channel Assignment # 65

PORTAGE

FCC assignment # 604 Frequency assignment # 3

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
POLK	126	604	143	12.00
SHEBOYGAN	150	604	82	6.85
SAUK	220	604	62	5.24

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	31	605	45	3.52
TRENPEALEAU	47	605	85	7.13
JACKSON	91	603	46	3.84
SAWYER	113	603	105	8.82
IRON	131	605	108	9.06
WINNEBAGO	159	603	39	3.32
GRANT	190	605	107	8.95

Channel Assignment # 66

PORTAGE

FCC assignment # 700 Frequency assignment # 75

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

LAFAYETTE	18	700	121	10.12
TRENPEALEAU	48	700	85	7.13
RUSK	118	700	90	7.52
MARINETTE	254	700	82	6.84

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	40	699	80	6.74
ST CROIX	112	701	137	11.43
POLK	124	699	143	12.00
BROWN	143	701	63	5.31
SAUK	223	701	62	5.24
JUNEAU	227	699	33	2.82

Channel Assignment # 67

PORTAGE

FCC assignment # 648 Frequency assignment # 35

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
BUFFALO	230	648	99	8.33

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	33	647	45	3.52
MONROE	84	647	56	4.72
BARRON	121	647	117	9.78
POLK	125	649	143	12.00
GRANT	187	649	107	8.95

Channel Assignment # 68

PORTAGE

FCC assignment # 720 Frequency assignment # 83

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
KEWAUNEE	27	720	86	7.25

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

IOWA	6	721	100	5.90
RICHLAND	8	719	85	6.12
OUTAGAMIE	34	719	45	3.52
CALUMET	43	721	61	5.14
DUNN	102	721	112	9.34
BARRON	120	719	117	9.78
LINCOLN	175	721	48	4.01
FOREST	241	719	75	6.32

Channel Assignment # 69

PORTAGE

FCC assignment # 624 Frequency assignment # 23

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
POLK	123	624	143	12.00
SHEBOYGAN	146	624	82	6.85

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	30	625	45	3.52
TRENPEALEAU	49	625	85	7.13
JACKSON	89	623	46	3.84
SAWYER	115	623	105	8.82
WINNEBAGO	161	623	39	3.32
SAUK	221	625	62	5.24

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Channel Assignment # 70

MARATHON

FCC assignment # 679 Frequency assignment # 54

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	22	679	98	6.56
MANITOWAC	41	679	96	6.46

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	4	680	153	10.24
EAU CLAIRE	54	678	48	3.25
DOOR	209	678	90	6.04

Channel Assignment # 71

MARATHON

FCC assignment # 622 Frequency assignment # 21

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PIERCE	196	622	106	7.13
VERNON	216	622	87	5.85
BURNETT	260	622	112	7.47

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
JACKSON	89	623	45	3.04
SAWYER	115	623	73	4.87
WINNEBAGO	161	623	64	4.31

Channel Assignment # 72

MARATHON

FCC assignment # 725 Frequency assignment # 88

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	110	725	110	7.34
FOND DU LAC	156	725	85	5.68
DOUGLAS	199	725	124	8.32

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	50	724	48	3.25
CHIPPEWA	96	726	49	3.30
IRON	130	726	81	5.46
BROWN	144	726	68	4.56
OCONTO	211	724	51	3.46
SAUK	224	726	89	5.98
JUNEAU	226	724	49	3.30

Channel Assignment # 73

MARATHON

SHEBOYGAN	150	604	239	23.99
SAUK	220	604	159	15.96

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	31	605	199	15.33
TREMPEALEAU	47	605	75	7.52
JACKSON	91	603	90	7.52
SAWYER	113	603	51	4.33
IRON	131	605	106	10.68
WINNEBAGO	159	603	197	19.80
GRANT	190	605	178	17.85

Channel Assignment # 127

POLK

FCC assignment # 731 Frequency assignment # 94

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	12	731	115	7.68
FLORENCE	77	731	184	18.44
BROWN	136	731	213	21.32
TAYLOR	182	731	79	6.62

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MENOMINEE	79	730	171	17.11
ASHLAND	132	730	84	8.44
SHEBOYGAN	149	730	239	23.99
WOOD	170	730	121	10.10
GRANT	188	730	178	17.85
PIERCE	193	730	39	3.95

Channel Assignment # 128

POLK

FCC assignment # 717 Frequency assignment # 80

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	36	717	199	15.33
MONROE	83	717	119	11.96
ONEIDA	246	717	121	10.09

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	75	716	113	7.59
GRANT	191	716	178	17.85
ADAMS	204	718	145	14.59
BUFFALO	229	718	61	6.14
PEPIN	231	716	49	4.96

Channel Assignment # 129

POLK

FCC assignment # 618 Frequency assignment # 17

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	17	619	211	17.64
COLUMBIA	21	617	190	15.86
BROWN	139	617	213	21.32
MARQUETTE	169	619	173	17.30
TAYLOR	180	617	79	6.62
PEPIN	232	617	49	4.96
PRICE	249	619	90	8.27

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Channel Assignment # 130

IRON

FCC assignment # 726 Frequency assignment # 89

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CHIPPEWA	96	726	77	7.77
BROWN	144	726	142	14.27
SAUK	224	726	171	17.13

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	19	727	235	19.61
TRENPEALEAU	46	727	124	12.45
MARATHON	72	725	81	5.46
ST CROIX	110	725	127	11.63

SAWYER	114	727	40	3.36
FOND DU LAC	156	725	173	17.35
WAUPACA	166	727	119	9.95
DOUGLAS	199	725	67	6.73
MARINETTE	255	727	94	9.48

Channel Assignment # 131

IRON

FCC assignment # 605 Frequency assignment # 4

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	31	605	139	10.76
TRENPEALEAU	47	605	124	12.45
GRANT	190	605	208	20.88

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	73	5.23
KEWAUNEE	28	606	160	16.07
PORTAGE	65	604	108	9.06
POLK	126	604	106	10.68
SHEBOYGAN	150	604	191	19.18
LINCOLN	176	606	47	4.78
PIERCE	198	606	138	13.83
ADAMS	205	606	135	13.54
SAUK	220	604	171	17.13

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Channel Assignment # 132

ASHLAND

FCC assignment # 730 Frequency assignment # 93

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MENOMINEE	79	730	106	10.66
SHEBOYGAN	149	730	201	20.12
WOOD	170	730	107	8.92
GRANT	188	730	207	20.76
PIERCE	193	730	118	11.81

Adjacent channel assignment(s)

Name	Channel	FCC	Separation	D to R

	Assignment #	Channel #	(mi)	Ratio
LA CROSSE	12	731	150	10.03
LA CROSSE	16	729	150	10.03
WASHBURN	25	729	52	3.76
FLORENCE	77	731	93	9.34
POLK	127	731	84	8.44
BROWN	136	731	154	15.45
WINNEBAGO	158	729	160	16.04
TAYLOR	182	731	57	4.82
DOOR	207	729	166	16.61

Channel Assignment # 133

ASHLAND

FCC assignment # 607 Frequency assignment # 6

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	9	607	186	13.29
EAU CLAIRE	51	607	95	9.54
SHAWANO	57	607	100	9.91
FOND DU LAC	152	607	180	18.07

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	52	3.76
KEWAUNEE	28	606	173	17.37
ST CROIX	105	608	104	9.54
LINCOLN	176	606	54	5.48
PIERCE	198	606	118	11.81
DOUGLAS	200	608	48	4.87
ADAMS	205	606	138	13.88
DOOR	210	608	166	16.61
FOREST	244	608	78	7.81

Channel Assignment # 134

ASHLAND

FCC assignment # 703 Frequency assignment # 78

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	1	703	239	15.94
ST CROIX	108	703	104	9.54
BROWN	138	703	154	15.45
WOOD	174	703	107	8.92

LANGLADE	239	703	75	7.55

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	14	702	150	10.03
CHIPPEWA	98	702	64	6.45
FOND DU LAC	153	702	180	18.07
DOUGLAS	201	702	48	4.87

Channel Assignment # 135

ASHLAND

FCC assignment # 627 Frequency assignment # 26

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	53	627	95	9.54
SHAWANO	56	627	100	9.91
FOND DU LAC	154	627	180	18.07

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	26	626	52	3.76
LINCOLN	178	626	54	5.48
GRANT	189	626	207	20.76

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Channel Assignment # 136

BROWN

FCC assignment # 731 Frequency assignment # 94

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	12	731	152	10.19
FLORENCE	77	731	88	11.11
POLK	127	731	213	21.32
TAYLOR	182	731	113	9.48

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MENOMINEE	79	730	34	4.33

ASHLAND	132	730	154	15.45
SHEBOYGAN	149	730	43	4.33
WOOD	170	730	91	7.59
GRANT	188	730	153	15.37
PIERCE	193	730	204	25.51

Channel Assignment # 137

BROWN

FCC assignment # 663 Frequency assignment # 50

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
JACKSON	87	663	118	9.84

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PIERCE	194	662	204	25.51
FOREST	242	662	68	6.87

Channel Assignment # 138

BROWN

FCC assignment # 703 Frequency assignment # 78

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	1	703	139	9.32
ST CROIX	108	703	289	19.00
ASHLAND	134	703	154	15.45
WOOD	174	703	91	7.59
LANGLADE	239	703	54	6.87

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	14	702	152	10.19
CHIPPEWA	98	702	148	14.90
FOND DU LAC	153	702	39	3.98
DOUGLAS	201	702	211	21.20

Channel Assignment # 139

BROWN

FCC assignment # 617 Frequency assignment # 16

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	21	617	82	6.86
TAYLOR	180	617	113	9.48
PEPIN	232	617	177	22.14

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	60	616	50	5.82
BARRON	119	616	184	15.40
POLK	129	618	213	21.32
LANGLADE	238	616	54	6.87

Channel Assignment # 140

BROWN

FCC assignment # 683 Frequency assignment # 58

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
FOREST	240	683	68	6.87

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CHIPPEWA	100	682	148	14.90

Channel Assignment # 141

BROWN

FCC assignment # 613 Frequency assignment # 12

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	2	613	139	9.32
ST CROIX	111	613	209	19.00
ONEIDA	245	613	88	7.39

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN LAKE	63	612	58	7.27
MENOMINEE	78	614	34	4.33
CRAWFORD	80	612	153	19.17
CLARK	92	612	117	9.81
RUSK	117	614	148	12.41
BUFFALO	228	614	173	21.72

Channel Assignment # 142

BROWN

FCC assignment # 681 Frequency assignment # 56

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WOOD	171	681	91	7.59

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	4	680	139	9.32
CHIPPEWA	100	682	148	14.90

Channel Assignment # 143

BROWN

FCC assignment # 701 Frequency assignment # 76

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	112	701	209	19.00
SAUK	223	701	101	12.75

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	14	702	152	10.19
LAFAYETTE	18	700	151	12.63
TRENPEALEAU	48	700	159	15.93
PORTAGE	66	700	63	5.31
CHIPPEWA	98	702	148	14.90
RUSK	118	700	148	12.41
FOND DU LAC	153	702	39	3.98
DOUGLAS	201	702	211	21.20
MARINETTE	254	700	38	3.86

Channel Assignment # 144

BROWN

FCC assignment # 726 Frequency assignment # 89

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CHIPPEWA	96	726	148	14.90
IRON	130	726	142	14.27
SAUK	224	726	101	12.75

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	19	727	151	12.63
TRENPEALEAU	46	727	159	15.93
MARATHON	72	725	68	4.56
ST CROIX	110	725	209	19.00
SAWYER	114	727	158	13.21
FOND DU LAC	156	725	39	3.98
WAUPACA	166	727	36	3.82
DOUGLAS	199	725	211	21.20
MARINETTE	255	727	38	3.86

Channel Assignment # 145

BROWN

FCC assignment # 645 Frequency assignment # 32

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	74	644	68	4.56
CRAWFORD	82	646	153	19.17
CLARK	94	646	117	9.81
DUNN	103	644	184	15.39
SHEBOYGAN	147	646	43	4.33
VERNON	218	644	125	15.74
ONEIDA	247	646	88	7.39

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Channel Assignment # 146

SHEBOYGAN

FCC assignment # 624 Frequency assignment # 23

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PORTAGE	69	624	82	6.85
POLK	123	624	239	23.99

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	30	625	50	3.85
TRENPEALEAU	49	625	168	16.82
JACKSON	89	623	128	10.71
SAWYER	115	623	199	16.63
WINNEBAGO	161	623	33	3.35
SAUK	221	625	85	8.52

Channel Assignment # 147

SHEBOYGAN

FCC assignment # 646 Frequency assignment # 33

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CRAWFORD	82	646	141	14.16
CLARK	94	646	136	11.34
ONEIDA	247	646	140	11.75

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	33	647	50	3.85
MONROE	84	647	124	12.48
BARRON	121	647	214	17.85
BROWN	145	645	43	4.33

Channel Assignment # 148

SHEBOYGAN

FCC assignment # 685 Frequency assignment # 60

Channel Assignment # 149

SHEBOYGAN

FCC assignment # 730 Frequency assignment # 93

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MENOMINEE	79	730	87	8.72
ASHLAND	132	730	201	20.12
WOOD	170	730	105	8.78
GRANT	188	730	135	13.55
PIERCE	193	730	219	21.97

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	12	731	154	10.27
LA CROSSE	16	729	154	10.27
WASHBURN	25	729	233	16.65
FLORENCE	77	731	146	14.62
POLK	127	731	239	23.99
BROWN	136	731	43	4.33
WINNEBAGO	158	729	33	3.35
TAYLOR	182	731	151	12.59
DOOR	207	729	72	7.27

Channel Assignment # 150

SHEBOYGAN

FCC assignment # 604 Frequency assignment # 3

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PORTAGE	65	604	82	6.85
POLK	126	604	239	23.99
SAUK	220	604	85	8.52

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	31	605	50	3.85
TRENPEALEAU	47	605	168	16.82
JACKSON	91	603	128	10.71
SAWYER	113	603	199	16.63
IRON	131	605	191	19.18
WINNEBAGO	159	603	33	3.35
GRANT	190	605	135	13.55

Channel Assignment # 151

SHEBOYGAN

FCC assignment # 723 Frequency assignment # 86

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	61	723	56	5.64
RUSK	116	723	186	15.50
PIERCE	197	723	219	21.97

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	23	722	59	4.96
EAU CLAIRE	50	724	165	16.51
SHAWANO	58	722	72	6.58
JACKSON	88	722	128	10.71
VILAS	184	722	168	15.33
OCONTO	211	724	73	7.34
JUNEAU	226	724	98	9.82
BAYFIELD	235	722	231	23.16

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Channel Assignment # 152

FOND DU LAC

FCC assignment # 607 Frequency assignment # 6

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	9	607	89	6.36
EAU CLAIRE	51	607	132	13.22
SHAWANO	57	607	64	5.90
ASHLAND	133	607	180	18.07

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	204	14.63
KEWAUNEE	28	606	53	5.31
ST CROIX	105	608	197	17.93
LINCOLN	176	606	110	11.08
PIERCE	198	606	184	18.49
DOUGLAS	200	608	227	22.74
ADAMS	205	606	48	4.84

DOOR	210	600	74	7.45
FOREST	244	600	118	11.83

Channel Assignment # 153

FOND DU LAC

FCC assignment # 702 Frequency assignment # 77

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	14	702	117	7.86
CHIPPEWA	98	702	144	14.44
DOUGLAS	201	702	227	22.74

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	1	703	87	5.81
ST CROIX	108	703	197	17.93
ST CROIX	112	701	197	17.93
ASHLAND	134	703	180	18.07
BROWN	138	703	39	3.98
BROWN	143	701	39	3.98
WOOD	174	703	73	6.09
SAUK	223	701	52	5.21
LANGLADE	239	703	95	9.57

Channel Assignment # 154

FOND DU LAC

FCC assignment # 627 Frequency assignment # 26

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	53	627	132	13.22
SHAWANO	56	627	64	5.90
ASHLAND	135	627	180	18.07

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	26	626	204	14.63
LINCOLN	178	626	110	11.08
GRANT	189	626	104	10.41

Channel Assignment # 155

FOND DU LAC

FCC assignment # 653 Frequency assignment # 40

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	35	652	42	3.26
SHAWANO	55	654	64	5.90
SAUK	222	652	52	5.21

Channel Assignment # 156

FOND DU LAC

FCC assignment # 725 Frequency assignment # 88

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	72	725	85	5.68
ST CROIX	110	725	197	17.93
DOUGLAS	199	725	227	22.74

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	50	724	132	13.22
CHIPPEWA	96	726	144	14.44
IRON	130	726	173	17.35
BROWN	144	726	39	3.98
OCONTO	211	724	69	6.90
SAUK	224	726	52	5.21
JUNEAU	226	724	61	6.20

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Channel Assignment # 157

WINNEBAGO

FCC assignment # 698 Frequency assignment # 73

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	52	698	123	12.40

LINCOLN	177	698	89	8.96
DOOR	206	698	65	6.50

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	10	697	98	7.02
MANITOWAC	40	699	35	2.95
BARRON	122	697	171	14.31
POLK	124	699	197	19.80
JUNEAU	227	699	67	6.75

Channel Assignment # 158

WINNEBAGO

FCC assignment # 729 Frequency assignment # 92

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	16	729	120	8.01
WASHBURN	25	729	190	13.60
DOOR	207	729	65	6.50

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	38	728	35	2.95
MENOMINEE	79	730	55	5.52
CRAWFORD	81	728	116	11.62
CLARK	95	728	95	7.92
ST CROIX	106	728	189	17.26
ASHLAND	132	730	160	16.04
SHEBOYGAN	149	730	33	3.35
MARQUETTE	168	728	30	3.09
WOOD	170	730	64	5.39
GRANT	188	730	115	11.57
PIERCE	193	730	180	18.05
LANGLADE	237	728	72	7.21

Channel Assignment # 159

WINNEBAGO

FCC assignment # 603 Frequency assignment # 2

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

JACKSON	91	603	89	7.49
SAWYER	113	603	157	13.10

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PORTAGE	65	604	39	3.32
MARATHON	73	602	64	4.31
POLK	126	604	197	19.00
SHEBOYGAN	150	604	33	3.35
PIERCE	195	602	180	18.05
VERNON	219	602	89	8.97
SAUK	220	604	63	6.39
BURNETT	259	602	199	19.92

Channel Assignment # 160

WINNEBAGO

FCC assignment # 665 Frequency assignment # 52

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
TAYLOR	181	665	100	9.04
MARINETTE	252	665	75	7.56
BURNETT	258	665	199	19.92

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

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Channel Assignment # 161

WINNEBAGO

FCC assignment # 623 Frequency assignment # 22

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
JACKSON	89	623	89	7.49
SAWYER	115	623	157	13.10

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PORTAGE	69	624	39	3.32
MARATHON	71	622	64	4.31

POLK	123	624	197	19.00
SHEBOYGAN	146	624	33	3.35
PIERCE	196	622	180	18.05
VERNON	216	622	89	8.97
BURNETT	260	622	199	19.92

Channel Assignment # 162

WINNEBAGO

FCC assignment # 658 Frequency assignment # 45

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
JUNEAU	225	658	67	6.75

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Channel Assignment # 163

WAUPACA

FCC assignment # 661 Frequency assignment # 48

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	15	661	187	7.19

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	109	660	165	13.81
WOOD	172	660	45	3.79
PIERCE	194	662	159	13.31
OCONTO	215	660	41	3.43
FOREST	242	662	67	5.60

Channel Assignment # 164

WAUPACA

FCC assignment # 692 Frequency assignment # 67

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

VERNON	217	692	86	7.17
ONEIDA	248	692	73	6.14

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
KEWAUNEE	29	691	59	4.98
GRANT	186	693	120	10.01
OCONTO	212	693	41	3.43
PEPIN	233	693	132	11.06

Channel Assignment # 165

WAUPACA

FCC assignment # 609 Frequency assignment # 8

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MONROE	86	609	77	6.48
CHIPPEWA	97	609	106	8.88

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	39	610	59	4.96
FLORENCE	76	610	90	7.54
ST CROIX	105	608	165	13.81
DOUGLAS	200	608	178	14.90
DOOR	210	608	64	5.35
BAYFIELD	234	610	157	13.11
FOREST	244	608	67	5.60

Channel Assignment # 166

WAUPACA

FCC assignment # 727 Frequency assignment # 90

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	19	727	128	10.74
TRENPEALEAU	46	727	114	9.56
SAWYER	114	727	125	10.44
MARINETTE	255	727	59	4.98

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	38	728	59	4.96
CRAWFORD	81	728	115	9.59
CLARK	95	728	73	6.10
CHIPPEWA	96	726	106	8.88
ST CROIX	106	728	165	13.81
IRON	130	726	119	9.95
BROWN	144	726	36	3.02
MARQUETTE	168	728	36	3.04
SAUK	224	726	73	6.09
LANGLADE	237	728	41	3.43

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Channel Assignment # 167

MARQUETTE

FCC assignment # 655 Frequency assignment # 42

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
DOOR	208	655	102	12.84

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CALUMET	42	656	53	5.38
SHAWANO	55	654	67	6.12

Channel Assignment # 168

MARQUETTE

FCC assignment # 728 Frequency assignment # 91

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	38	728	72	6.01
CRAWFORD	81	728	73	9.14
CLARK	95	728	69	5.76
ST CROIX	106	728	161	14.67
LANGLADE	237	728	84	10.61

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	16	729	81	5.45

LAFAYETTE	19	727	78	6.54
WASHBURN	25	729	173	12.40
TRENPEALEAU	46	727	95	9.56
SAWYER	114	727	148	12.35
WINNEBAGO	158	729	30	3.09
WAUPACA	166	727	36	3.04
DOOR	207	729	102	12.84
MARINETTE	255	727	106	10.67

Channel Assignment # 169

MARQUETTE

FCC assignment # 619 Frequency assignment # 18

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	17	619	78	6.54
PRICE	249	619	115	10.48

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
POLK	129	618	173	17.30

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Channel Assignment # 170

WOOD

FCC assignment # 730 Frequency assignment # 93

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MENOMINEE	79	730	67	5.60
ASHLAND	132	730	107	8.92
SHEBOYGAN	149	730	105	8.78
GRANT	188	730	92	7.75
PIERCE	193	730	105	8.78

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	12	731	58	3.92
LA CROSSE	16	729	58	3.92
WASHBURN	25	729	118	8.44
FLORENCE	77	731	115	9.60
POLK	127	731	121	10.10

BROWN	136	731	91	7.59
WINNEBAGO	158	729	64	5.39
TAYLOR	182	731	46	3.86
DOOR	207	729	119	9.92

Channel Assignment # 171

WOOD

FCC assignment # 681 Frequency assignment # 56

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
BROWN	142	681	91	7.59

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	4	680	118	7.91
CHIPPEWA	100	682	57	4.75

Channel Assignment # 172

WOOD

FCC assignment # 660 Frequency assignment # 47

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	109	660	112	9.41
OCONTO	215	660	90	7.54

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	15	661	58	3.92
WAUPACA	163	661	45	3.79

Channel Assignment # 173

WOOD

FCC assignment # 640 Frequency assignment # 27

Cochannel assignment(s)

Name	Channel	FCC	Separation	D to R

	Assignment #	Channel #	(mi)	Ratio
GREEN	3	640	118	7.91
ST CROIX	107	640	112	9.41
VILAS	185	640	102	8.56
DOUGLAS	202	640	143	11.93
OCONTO	213	640	90	7.54

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	13	641	58	3.92
CHIPPEWA	99	641	57	4.75

Channel Assignment # 174

WOOD

FCC assignment # 703 Frequency assignment # 78

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	1	703	118	7.91
ST CROIX	108	703	112	9.41
ASHLAND	134	703	107	8.92
BROWN	138	703	91	7.59
LANGLADE	239	703	59	4.96

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	14	702	58	3.92
CHIPPEWA	98	702	57	4.75
FOND DU LAC	153	702	73	6.09
DOUGLAS	201	702	143	11.93

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Channel Assignment # 175

LINCOLN

FCC assignment # 721 Frequency assignment # 84

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	6	721	154	9.08
CALUMET	43	721	103	10.34
DUNN	102	721	99	8.26

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	23	722	122	10.21
KEWAUNEE	27	720	100	10.89
SHAWANO	58	722	38	3.54
PORTAGE	68	720	48	4.01
JACKSON	88	722	72	6.06
VILAS	184	722	42	3.82
BAYFIELD	235	722	85	8.54

Channel Assignment # 176

LINCOLN

FCC assignment # 606 Frequency assignment # 5

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	97	6.96
KEWAUNEE	28	606	100	10.89
PIERCE	198	606	123	12.34
ADAMS	205	606	76	7.62

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	9	607	131	9.41
OUTAGAMIE	31	605	79	6.13
TRENPEALEAU	47	605	90	9.03
EAU CLAIRE	51	607	69	6.97
SHAWANO	57	607	38	3.54
IRON	131	605	47	4.78
ASHLAND	133	607	54	5.48
FOND DU LAC	152	607	110	11.00
GRANT	190	605	154	15.43

Channel Assignment # 177

LINCOLN

FCC assignment # 698 Frequency assignment # 73

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	52	698	69	6.97
WINNEBAGO	157	698	89	8.96
DOOR	206	698	104	10.42

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	10	697	131	9.41
MANITOWAC	40	699	117	9.78
BARRON	122	697	92	7.70
POLK	124	699	121	12.19
JUNEAU	227	699	74	7.44

Channel Assignment # 178

LINCOLN

FCC assignment # 626 Frequency assignment # 25

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	26	626	97	6.96
GRANT	189	626	154	15.43

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	38	625	79	6.13
TRENPEALEAU	49	625	90	9.83
EAU CLAIRE	53	627	69	6.97
SHAWANO	56	627	38	3.54
ASHLAND	135	627	54	5.48
FOND DU LAC	154	627	110	11.00
SAUK	221	625	114	11.49

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Channel Assignment # 179

TAYLOR

FCC assignment # 694 Frequency assignment # 69

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CALUMET	45	694	125	10.48
ADAMS	203	694	78	6.53
BURNETT	256	694	73	6.16

Adjacent channel assignment(s)

Name	Channel	FCC	Separation	D to R

	Assignment #	Channel #	(mi)	Ratio
GREEN LAKE	62	695	112	9.34
MONROE	85	695	79	6.62
DUNN	104	695	56	4.68
GRANT	186	693	145	12.16
OCONTO	212	693	84	7.02
PEPIN	233	693	61	5.14

Channel Assignment # 180

TAYLOR

FCC assignment # 617 Frequency assignment # 16

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	21	617	126	10.57
BROWN	139	617	113	9.48
PEPIN	232	617	61	5.14

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	60	616	86	7.24
BARRON	119	616	50	4.19
POLK	129	618	79	6.62
LANGLADE	238	616	46	3.86

Channel Assignment # 181

TAYLOR

FCC assignment # 665 Frequency assignment # 52

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WINNEBAGO	160	665	108	9.04
MARINETTE	252	665	96	8.03
BURNETT	258	665	73	6.16

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

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Channel Assignment # 182

TAYLOR

FCC assignment # 731 Frequency assignment # 94

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	12	731	89	5.96
FLORENCE	77	731	91	7.65
POLK	127	731	79	6.62
BROWN	136	731	113	9.48

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MENOMINEE	79	730	68	5.75
ASHLAND	132	730	57	4.82
SHEBOYGAN	149	730	151	12.59
WOOD	170	730	46	3.86
GRANT	188	730	145	12.16
PIERCE	193	730	81	6.78

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Channel Assignment # 183

VILAS

FCC assignment # 611 Frequency assignment # 10

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	11	611	157	10.53
DUNN	101	611	116	9.75
OCONTO	214	611	62	5.72

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	39	610	145	12.09
GREEN LAKE	63	612	149	13.56
FLORENCE	76	610	33	3.00
CRAWFORD	80	612	191	17.44
CLARK	92	612	84	7.00
BAYFIELD	234	610	63	5.73

Channel Assignment # 184

VILAS

FCC assignment # 722 Frequency assignment # 85

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	23	722	176	14.70
SHAWANO	58	722	80	7.30
JACKSON	88	722	123	10.26
BAYFIELD	235	722	63	5.73

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	6	721	208	12.25
CALUMET	43	721	139	12.73
WAUSHARA	61	723	132	12.85
DUNN	102	721	116	9.75
RUSK	116	723	60	5.85
SHEBOYGAN	151	723	168	15.33
LINCOLN	175	721	42	3.82
PIERCE	197	723	146	13.34

Channel Assignment # 185

VILAS

FCC assignment # 640 Frequency assignment # 27

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	3	640	231	15.44
ST CROIX	107	640	137	12.52
WOOD	173	640	102	8.56
DOUGLAS	202	640	92	8.44
OCONTO	213	640	62	5.72

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	13	641	157	10.53
CHIPPEWA	99	641	83	7.64

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Channel Assignment # 186

GRANT

FCC assignment # 693 Frequency assignment # 68

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OCONTO	212	693	171	17.15
PEPIN	233	693	122	12.22

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CALUMET	45	694	135	13.57
WAUPACA	164	692	120	10.01
TAYLOR	179	694	145	12.16
ADAMS	203	694	63	6.34
VERNON	217	692	31	3.13
ONEIDA	248	692	185	15.46
BURNETT	256	694	196	19.64

Channel Assignment # 187

GRANT

FCC assignment # 649 Frequency assignment # 36

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
POLK	125	649	178	17.85

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	20	650	61	5.10
MANITOWAC	37	650	152	12.72
PORTAGE	67	648	107	8.95
BUFFALO	230	648	93	9.37

Channel Assignment # 188

GRANT

FCC assignment # 730 Frequency assignment # 93

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MENOMINEE	79	730	159	15.94
ASHLAND	132	730	207	20.76
SHEBOYGAN	149	730	135	13.55
WOOD	170	730	92	7.75
PIERCE	193	730	135	13.53

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	12	731	63	4.24
LA CROSSE	16	729	63	4.24
WASHBURN	25	729	197	14.10
FLORENCE	77	731	215	21.51
POLK	127	731	178	17.85
BROWN	136	731	153	15.37
WINNEBAGO	158	729	115	11.57
TAYLOR	182	731	145	12.16
DOOR	207	729	189	18.94

Channel Assignment # 189

GRANT

FCC assignment # 626 Frequency assignment # 25

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	26	626	197	14.10
LINCOLN	178	626	154	15.43

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	30	625	139	10.76
TRENPEALEAU	49	625	81	8.18
EAU CLAIRE	53	627	115	11.59
SHAWANO	56	627	146	13.33
ASHLAND	135	627	207	20.76
FOND DU LAC	154	627	104	10.41
SAUK	221	625	30	3.02

Channel Assignment # 190

GRANT

FCC assignment # 605 Frequency assignment # 4

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	31	605	139	10.76
TRENPEALEAU	47	605	81	8.18
IRON	131	605	208	20.88

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	197	14.10
KEWAUNEE	28	606	173	17.39
PORTAGE	65	604	107	8.95
POLK	126	604	178	17.85
SHEBOYGAN	150	604	135	13.55
LINCOLN	176	606	154	15.43
PIERCE	198	606	135	13.53
ADAMS	205	606	63	6.34
SAUK	220	604	30	3.02

Channel Assignment # 191

GRANT

FCC assignment # 716 Frequency assignment # 79

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	75	716	128	8.54
PEPIN	231	716	122	12.22

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	36	717	139	10.76
MONROE	83	717	54	5.44
POLK	128	717	178	17.85
ONEIDA	246	717	185	15.46

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Channel Assignment # 192

PIERCE

FCC assignment # 642 Frequency assignment # 29

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
BAYFIELD	236	642	113	11.40
FOREST	243	642	176	17.61

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

IOWA	7	643	155	9.14
LA CROSSE	13	641	76	5.10
GREEN LAKE	64	643	168	21.06
JACKSON	90	643	64	5.35
CHIPPEWA	99	641	43	4.32
PRICE	251	643	101	9.26
BURNETT	257	643	65	8.19

Channel Assignment # 193

PIERCE

FCC assignment # 730 Frequency assignment # 93

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MENOMINEE	79	730	167	20.90
ASHLAND	132	730	118	11.81
SHEBOYGAN	149	730	219	21.97
WOOD	170	730	105	8.78
GRANT	188	730	135	13.53

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	12	731	76	5.10
LA CROSSE	16	729	76	5.10
WASHBURN	25	729	75	5.43
FLORENCE	77	731	195	24.48
POLK	127	731	39	3.95
BROWN	136	731	204	25.51
WINNEBAGO	158	729	100	18.05
TAYLOR	182	731	81	6.78
DOOR	207	729	229	28.67

Channel Assignment # 194

PIERCE

FCC assignment # 662 Frequency assignment # 49

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
FOREST	242	662	176	17.61

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

LA CROSSE	15	661	76	5.10
JACKSON	87	663	64	5.35
BROWN	137	663	204	25.51
WAUPACA	163	661	159	13.31

Channel Assignment # 195

PIERCE

FCC assignment # 602 Frequency assignment # 1

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	73	602	106	7.13
VERNON	219	602	89	11.15
BURNETT	259	602	65	8.19

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
JACKSON	91	603	64	5.35
SAWYER	113	603	86	7.17
WINNEBAGO	159	603	180	18.05

Channel Assignment # 196

PIERCE

FCC assignment # 622 Frequency assignment # 21

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	71	622	106	7.13
VERNON	216	622	89	11.15
BURNETT	260	622	65	8.19

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
JACKSON	89	623	64	5.35
SAWYER	115	623	86	7.17
WINNEBAGO	161	623	180	18.05

Channel Assignment # 197

PIERCE

FCC assignment # 723 Frequency assignment # 86

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	61	723	142	14.25
RUSK	116	723	66	5.51
SHEBOYGAN	151	723	219	21.97

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	23	722	159	13.38
EAU CLAIRE	50	724	37	3.80
SHAWANO	58	722	159	14.58
JACKSON	88	722	64	5.35
VILAS	184	722	146	13.34
OCONTO	211	724	186	18.78
JUNEAU	226	724	107	13.48
BAYFIELD	235	722	113	11.48

Channel Assignment # 198

PIERCE

FCC assignment # 606 Frequency assignment # 5

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	75	5.43
KEWAUNEE	28	606	227	28.48
LINCOLN	176	606	123	12.34
ADAMS	205	606	121	15.20

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	9	607	125	8.98
OUTAGAMIE	31	605	186	14.38
TRENPEALEAU	47	605	46	4.61
EAU CLAIRE	51	607	37	3.80
SHAWANO	57	607	159	14.58
IRON	131	605	138	13.83
ASHLAND	133	607	118	11.81
FOND DU LAC	152	607	184	18.49
GRANT	190	605	135	13.53

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Channel Assignment # 199

DOUGLAS

FCC assignment # 725 Frequency assignment # 88

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	72	725	124	8.32
ST CROIX	110	725	84	7.71
FOND DU LAC	156	725	227	22.74

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	50	724	108	10.87
CHIPPEWA	96	726	77	7.79
IRON	130	726	67	6.73
BROWN	144	726	211	21.20
OCONTO	211	724	171	17.12
SAUK	224	726	200	20.01
JUNEAU	226	724	163	16.40

Channel Assignment # 200

DOUGLAS

FCC assignment # 608 Frequency assignment # 7

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	105	608	84	7.71
DOOR	210	608	226	22.65
FOREST	244	608	140	14.07

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	9	607	210	15.00
EAU CLAIRE	51	607	108	10.87
SHAWANO	57	607	164	14.91
MONROE	86	609	162	16.29
CHIPPEWA	97	609	77	7.79
ASHLAND	133	607	48	4.87
FOND DU LAC	152	607	227	22.74
WAUPACA	165	609	178	14.90

Channel Assignment # 201

DOUGLAS

FCC assignment # 702 Frequency assignment # 77

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	14	702	166	11.09
CHIPPEWA	98	702	77	7.79
FOND DU LAC	153	702	227	22.74

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	1	703	270	18.04
ST CROIX	108	703	84	7.71
ST CROIX	112	701	84	7.71
ASHLAND	134	703	48	4.87
BROWN	138	703	211	21.20
BROWN	143	701	211	21.20
WOOD	174	703	143	11.93
SAUK	223	701	200	20.01
LANGLADE	239	703	134	13.44

Channel Assignment # 202

DOUGLAS

FCC assignment # 640 Frequency assignment # 27

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	3	640	270	18.04
ST CROIX	107	640	84	7.71
WOOD	173	640	143	11.93
VILAS	185	640	92	8.44
OCONTO	213	640	171	17.12

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	13	641	166	11.09
CHIPPEWA	99	641	77	7.79

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Channel Assignment # 203

ADAMS

FCC assignment # 694 Frequency assignment # 69

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CALUMET	45	694	74	7.41
TAYLOR	179	694	78	6.53
BURNETT	256	694	153	19.15

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN LAKE	62	695	29	3.73
MONROE	85	695	29	2.96
DUNN	184	695	188	9.88
GRANT	186	693	63	6.34
OCONTO	212	693	98	9.85
PEPIN	233	693	96	12.82

Channel Assignment # 284

ADAMS

FCC assignment # 718 Frequency assignment # 81

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
BUFFALO	229	718	87	10.92

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	8	719	43	3.13
OUTAGAMIE	34	719	63	4.88
OUTAGAMIE	36	717	63	4.88
MONROE	83	717	29	2.96
BARRON	120	719	123	10.28
POLK	128	717	145	14.59
FOREST	241	719	185	10.55
ONEIDA	246	717	183	8.58

Channel Assignment # 285

ADAMS

FCC assignment # 606 Frequency assignment # 5

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	24	606	148	10.58
KEWAUNEE	28	606	103	12.90
LINCOLN	176	606	76	7.62
PIERCE	198	606	121	15.20

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	9	607	43	3.13
OUTAGAMIE	31	605	63	4.88
TRENPEALEAU	47	605	70	7.10
EAU CLAIRE	51	607	70	7.01
SHAWANO	57	607	60	5.54
IRON	131	605	135	13.54
ASHLAND	133	607	138	13.80
FOND DU LAC	152	607	48	4.84
GRANT	198	605	63	6.34

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Channel Assignment # 206

DOOR

FCC assignment # 698 Frequency assignment # 73

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	52	698	170	17.00
WINNEBAGO	157	698	65	6.50
LINCOLN	177	698	104	10.42

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	10	697	170	12.19
MANITOWAC	40	699	38	3.25
BARRON	122	697	206	17.18
POLK	124	699	235	23.52
JUNEAU	227	699	128	16.11

Channel Assignment # 207

DOOR

FCC assignment # 729 Frequency assignment # 92

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	16	729	182	12.19
WASHBURN	25	729	215	15.40
WINNEBAGO	158	729	65	6.50

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	38	728	38	3.25
MENOMINEE	79	730	51	6.41
CRAWFORD	81	728	187	23.47
CLARK	95	728	143	11.94
ST CROIX	106	728	232	21.17
ASHLAND	132	730	166	16.61
SHEBOYGAN	149	730	72	7.27
MARQUETTE	168	728	102	12.84
WOOD	170	730	119	9.92
GRANT	188	730	189	18.94
PIERCE	193	730	229	28.67
LANGLADE	237	728	65	8.18

Channel Assignment # 208

DOOR

FCC assignment # 655 Frequency assignment # 42

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARQUETTE	167	655	102	12.84

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CALUMET	42	656	53	5.39
SHAWANO	55	654	42	3.88

Channel Assignment # 209

DOOR

FCC assignment # 678 Frequency assignment # 53

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	54	678	170	17.00

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	22	679	119	9.92
MANITOWAC	41	679	38	3.25
MARATHON	70	679	90	6.04

Channel Assignment # 210

DOOR

FCC assignment # 608 Frequency assignment # 7

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	105	608	232	21.17
DOUGLAS	200	608	226	22.65
FOREST	244	608	70	7.04

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	9	607	170	12.19
EAU CLAIRE	51	607	170	17.00
SHAWANO	57	607	42	3.88
MONROE	86	609	152	15.28
CHIPPEWA	97	609	172	17.22
ASHLAND	133	607	166	16.61
FOND DU LAC	152	607	74	7.45
WAUPACA	165	609	64	5.35

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Channel Assignment # 211

OCONTO

FCC assignment # 724 Frequency assignment # 87

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	50	724	130	13.01
JUNEAU	226	724	103	10.35

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	61	723	65	6.59

MARATHON	72	725	51	3.46
ST CROIX	110	725	187	17.01
RUSK	116	723	115	9.63
SHEBOYGAN	151	723	73	7.34
FOND DU LAC	156	725	69	6.90
PIERCE	197	723	186	18.70
DOUGLAS	199	725	171	17.12

Channel Assignment # 212

OCONTO

FCC assignment # 693 Frequency assignment # 68

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GRANT	186	693	171	17.15
PEPIN	233	693	162	16.28

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CALUMET	45	694	46	4.67
WAUPACA	164	692	41	3.43
TAYLOR	179	694	84	7.02
ADAMS	203	694	98	9.05
VERNON	217	692	139	13.90
ONEIDA	248	692	41	3.44
BURNETT	256	694	176	17.62

Channel Assignment # 213

OCONTO

FCC assignment # 640 Frequency assignment # 27

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	3	640	164	10.99
ST CROIX	107	640	187	17.01
WOOD	173	640	90	7.54
VILAS	185	640	62	5.72
DOUGLAS	202	640	171	17.12

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	13	641	156	10.44

CHIPPEWA	99	641	125	12.60

Channel Assignment # 214

OCONTO

FCC assignment # 611 Frequency assignment # 10

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	11	611	156	10.44
DUNN	101	611	163	13.65
VILAS	183	611	62	5.72

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	39	610	44	3.73
GREEN LAKE	63	612	78	7.86
FLORENCE	76	610	38	3.88
CRAWFORD	80	612	167	16.79
CLARK	92	612	100	8.40
BAYFIELD	234	610	143	14.36

Channel Assignment # 215

OCONTO

FCC assignment # 660 Frequency assignment # 47

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	109	660	187	17.01
WOOD	172	660	90	7.54

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	15	661	156	10.44
WAUPACA	163	661	41	3.43

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Channel Assignment # 216

VERNON

FCC assignment # 622 Frequency assignment # 21

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	71	622	87	5.85
PIERCE	196	622	89	11.15
BURNETT	260	622	150	18.77

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
JACKSON	89	623	39	3.27
SAWYER	115	623	149	12.43
WINNEBAGO	161	623	89	8.97

Channel Assignment # 217

VERNON

FCC assignment # 692 Frequency assignment # 67

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUPACA	164	692	86	7.17
ONEIDA	248	692	145	12.10

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
KEWAUNEE	29	691	147	18.41
GRANT	186	693	31	3.13
OCONTO	212	693	139	13.90
PEPIN	233	693	74	9.37

Channel Assignment # 218

VERNON

FCC assignment # 644 Frequency assignment # 31

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	74	644	87	5.85
DUNN	103	644	89	7.49

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	7	643	45	2.68
GREEN LAKE	64	643	64	8.11
JACKSON	90	643	39	3.27
BROWN	145	645	125	15.74
PRICE	251	643	126	11.52
BURNETT	257	643	150	18.77

Channel Assignment # 219

VERNON

FCC assignment # 602 Frequency assignment # 1

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	73	602	87	5.85
PIERCE	195	602	89	11.15
BURNETT	259	602	150	18.77

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
JACKSON	91	603	39	3.27
SAWYER	113	603	149	12.43
WINNEBAGO	159	603	89	8.97

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Channel Assignment # 220

SAUK

FCC assignment # 604 Frequency assignment # 3

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PORTAGE	65	604	62	5.24
POLK	126	604	159	15.96
SHEBOYGAN	150	604	85	8.52

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	31	605	89	6.88
TRENPEALEAU	47	605	67	6.77
JACKSON	91	603	50	4.17
SAWYER	113	603	155	12.97

IRON	131	605	171	17.13
WINNEBAGO	159	603	63	6.39
GRANT	190	605	30	3.02

Channel Assignment # 221

SAUK

FCC assignment # 625 Frequency assignment # 24

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	30	625	89	6.88
TRENPEALEAU	49	625	67	6.77

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WASHBURN	26	626	170	12.19
PORTAGE	69	624	62	5.24
POLK	123	624	159	15.96
SHEBOYGAN	146	624	85	8.52
LINCOLN	178	626	114	11.49
GRANT	189	626	30	3.02

Channel Assignment # 222

SAUK

FCC assignment # 652 Frequency assignment # 39

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	35	652	89	6.88

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
FOND DU LAC	155	653	52	5.21

Channel Assignment # 223

SAUK

FCC assignment # 701 Frequency assignment # 76

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	112	701	143	13.05
BROWN	143	701	101	12.75

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	14	702	49	3.32
LAFAYETTE	18	700	42	3.50
TRENPEALEAU	48	700	67	6.77
PORTAGE	66	700	62	5.24
CHIPPEWA	98	702	106	10.68
RUSK	118	700	135	11.32
FOND DU LAC	153	702	52	5.21
DOUGLAS	201	702	200	20.01
MARINETTE	254	700	143	14.38

Channel Assignment # 224

SAUK

FCC assignment # 726 Frequency assignment # 89

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CHIPPEWA	96	726	106	10.68
IRON	130	726	171	17.13
BROWN	144	726	101	12.75

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	19	727	42	3.50
TRENPEALEAU	46	727	67	6.77
MARATHON	72	725	89	5.98
ST CROIX	110	725	143	13.05
SAWYER	114	727	155	12.97
FOND DU LAC	156	725	52	5.21
WAUPACA	166	727	73	6.09
DOUGLAS	199	725	200	20.01
MARINETTE	255	727	143	14.38

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Channel Assignment # 225

JUNEAU

FCC assignment # 658 Frequency assignment # 45

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WINNEBAGO	162	658	67	6.75

Channel Assignment # 226

JUNEAU

FCC assignment # 724 Frequency assignment # 87

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
EAU CLAIRE	50	724	56	5.70
OCONTO	211	724	103	10.35

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	61	723	29	2.97
MARATHON	72	725	49	3.30
ST CROIX	110	725	120	10.96
RUSK	116	723	97	8.16
SHEBOYGAN	151	723	98	9.82
FOND DU LAC	156	725	61	6.20
PIERCE	197	723	107	13.48
DOUGLAS	199	725	163	16.40

Channel Assignment # 227

JUNEAU

FCC assignment # 699 Frequency assignment # 74

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	40	699	108	9.04
POLK	124	699	132	13.26

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	18	700	74	6.17
TRENPEALEAU	48	700	58	5.82

EAU CLAIRE	52	698	56	5.70
PORTAGE	66	700	33	2.82
RUSK	118	700	97	8.16
WINNEBAGO	157	698	67	6.75
LINCOLN	177	698	74	7.44
DOOR	206	698	128	16.11
MARINETTE	254	700	121	12.20

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Channel Assignment # 228

BUFFALO

FCC assignment # 614 Frequency assignment # 13

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MENOMINEE	78	614	141	17.67
RUSK	117	614	67	5.65

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	2	613	147	9.81
IOWA	5	615	112	6.60
CALUMET	44	615	171	17.15
ST CROIX	111	613	41	3.75
BROWN	141	613	173	21.72
ONEIDA	245	613	121	10.11
MARINETTE	253	615	177	17.79

Channel Assignment # 229

BUFFALO

FCC assignment # 718 Frequency assignment # 81

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ADAMS	204	718	87	10.92

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	8	719	82	5.91
OUTAGAMIE	34	719	155	12.00
OUTAGAMIE	36	717	155	12.00
MONROE	83	717	48	4.82

BARRON	120	719	58	4.84
POLK	128	717	61	6.14
FOREST	241	719	155	15.60
ONEIDA	246	717	121	10.11

Channel Assignment # 230

BUFFALO

FCC assignment # 648 Frequency assignment # 35

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PORTAGE	67	648	99	8.33

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	33	647	155	12.00
MONROE	84	647	48	4.82
BARRON	121	647	58	4.84
POLK	125	649	61	6.14
GRANT	187	649	93	9.37

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Channel Assignment # 231

PEPIN

FCC assignment # 716 Frequency assignment # 79

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	75	716	81	5.44
GRANT	191	716	122	12.22

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	36	717	160	12.31
MONROE	83	717	64	6.44
POLK	128	717	49	4.96
ONEIDA	246	717	117	9.78

Channel Assignment # 232

PEPIN

FCC assignment # 617 Frequency assignment # 16

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	21	617	136	11.40
BROWN	139	617	177	22.14
TAYLOR	180	617	61	5.14

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	60	616	116	11.65
BARRON	119	616	48	4.01
POLK	129	618	49	4.96
LANGLADE	238	616	125	15.66

Channel Assignment # 233

PEPIN

FCC assignment # 693 Frequency assignment # 68

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GRANT	186	693	122	12.22
OCONTO	212	693	162	16.28

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CALUMET	45	694	176	17.67
WAUPACA	164	692	132	11.06
TAYLOR	179	694	61	5.14
ADAMS	203	694	96	12.02
VERNON	217	692	74	9.37
ONEIDA	248	692	117	9.78
BURNETT	256	694	73	14.71

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Channel Assignment # 234

BAYFIELD

FCC assignment # 610 Frequency assignment # 9

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	39	610	218	18.18
FLORENCE	76	610	125	12.59

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	11	611	163	10.89
MONROE	86	609	156	15.63
CHIPPEWA	97	609	75	7.60
DUNN	101	611	85	7.12
WAUPACA	165	609	157	13.11
VILAS	183	611	63	5.73
OCONTO	214	611	143	14.36

Channel Assignment # 235

BAYFIELD

FCC assignment # 722 Frequency assignment # 85

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
COLUMBIA	23	722	209	17.46
SHAWANO	58	722	140	12.76
JACKSON	88	722	127	10.61
VILAS	184	722	63	5.73

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	6	721	230	13.57
CALUMET	43	721	204	20.48
WAUSHARA	61	723	169	16.98
DUNN	102	721	85	7.12
RUSK	116	723	53	4.43
SHEBOYGAN	151	723	231	23.16
LINCOLN	175	721	85	8.54
PIERCE	197	723	113	11.40

Channel Assignment # 236

BAYFIELD

FCC assignment # 642 Frequency assignment # 29

Cochannel assignment(s)

Name	Channel	FCC	Separation	D to R

	Assignment #	Channel #	(mi)	Ratio
PIERCE	192	642	113	11.40
FOREST	243	642	110	11.06

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	7	643	230	13.57
LA CROSSE	13	641	163	10.89
GREEN LAKE	64	643	195	19.50
JACKSON	90	643	127	10.61
CHIPPEWA	99	641	75	7.60
PRICE	251	643	44	4.82
BURNETT	257	643	39	3.91

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Channel Assignment # 237

LANGLADE

FCC assignment # 728 Frequency assignment # 91

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	38	728	86	7.21
CRAWFORD	81	728	149	18.71
CLARK	95	728	63	5.28
ST CROIX	106	728	148	13.54
MARQUETTE	168	728	84	10.61

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	16	729	126	8.42
LAFAYETTE	19	727	175	14.61
WASHBURN	25	729	124	8.87
TRENPEALEAU	46	727	112	11.26
SAWYER	114	727	82	6.84
WINNEBAGO	158	729	72	7.21
WAUPACA	166	727	41	3.43
DOOR	207	729	65	8.18
MARINETTE	255	727	29	2.97

Channel Assignment # 238

LANGLADE

FCC assignment # 616 Frequency assignment # 15

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	60	616	70	7.05
BARRON	119	616	119	9.92

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	5	615	154	9.06
COLUMBIA	21	617	114	9.53
CALUMET	44	615	79	7.99
BROWN	139	617	54	6.87
TAYLOR	180	617	46	3.86
PEPIN	232	617	125	15.66
MARINETTE	253	615	29	2.97

Channel Assignment # 239

LANGLADE

FCC assignment # 703 Frequency assignment # 78

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	1	703	171	11.42
ST CROIX	108	703	148	13.54
ASHLAND	134	703	75	7.55
BROWN	138	703	54	6.87
WOOD	174	703	59	4.96

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	14	702	126	8.42
CHIPPEWA	98	702	87	8.79
FOND DU LAC	153	702	95	9.57
DOUGLAS	201	702	134	13.44

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Channel Assignment # 240

FOREST

FCC assignment # 683 Frequency assignment # 58

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

BROWN	140	683	68	6.87

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CHIPPEWA	100	682	112	11.25

Channel Assignment # 241

FOREST

FCC assignment # 719 Frequency assignment # 82

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	8	719	168	12.05
OUTAGAMIE	34	719	75	5.00
BARRON	120	719	140	11.68

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
KEWAUNEE	27	720	80	8.06
PORTAGE	68	720	75	6.32
ADAMS	204	718	105	10.55
BUFFALO	229	718	155	15.60

Channel Assignment # 242

FOREST

FCC assignment # 662 Frequency assignment # 49

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PIERCE	194	662	176	17.61

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LA CROSSE	15	661	159	10.62
JACKSON	87	663	119	9.95
BROWN	137	663	68	6.87
WAUPACA	163	661	67	5.60

Channel Assignment # 243

FOREST

FCC assignment # 642 Frequency assignment # 29

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
PIERCE	192	642	176	17.61
BAYFIELD	236	642	110	11.06

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	7	643	184	10.87
LA CROSSE	13	641	159	10.62
GREEN LAKE	64	643	113	11.37
JACKSON	90	643	119	9.95
CHIPPEWA	99	641	112	11.25
PRICE	251	643	67	6.12
BURNETT	257	643	156	15.63

Channel Assignment # 244

FOREST

FCC assignment # 608 Frequency assignment # 7

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
ST CROIX	105	608	173	15.75
DOUGLAS	200	608	140	14.07
DOOR	210	608	70	7.04

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
RICHLAND	9	607	168	12.05
EAU CLAIRE	51	607	123	12.33
SHAWANO	57	607	45	4.15
MONROE	86	609	133	13.36
CHIPPEWA	97	609	112	11.25
ASHLAND	133	607	78	7.81
FOND DU LAC	152	607	118	11.83
WAUPACA	165	609	67	5.60

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Channel Assignment # 245

ONEIDA

FCC assignment # 613 Frequency assignment # 12

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN	2	613	202	13.50
ST CROIX	111	613	128	10.75
BROWN	141	613	88	7.39

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN LAKE	63	612	119	9.94
MENOMINEE	78	614	43	3.59
CRAWFORD	80	612	170	14.22
CLARK	92	612	64	5.36
RUSK	117	614	51	4.26
BUFFALO	228	614	121	10.11

Channel Assignment # 246

ONEIDA

FCC assignment # 717 Frequency assignment # 80

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	36	717	88	6.83
MONROE	83	717	120	10.01
POLK	128	717	121	10.09

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	75	716	49	3.28
GRANT	191	716	185	15.46
ADAMS	204	718	103	8.58
BUFFALO	229	718	121	10.11
PEPIN	231	716	117	9.78

Channel Assignment # 247

ONEIDA

FCC assignment # 646 Frequency assignment # 33

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CRAWFORD	82	646	170	14.22
CLARK	94	646	64	5.36
SHEBOYGAN	147	646	140	11.75

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
OUTAGAMIE	33	647	88	6.83
MONROE	84	647	120	10.01
BARRON	121	647	93	7.76
BROWN	145	645	88	7.39

Channel Assignment # 248

ONEIDA

FCC assignment # 692 Frequency assignment # 67

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUPACA	164	692	73	6.14
VERNON	217	692	145	12.10

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
KEWAUNEE	29	691	105	8.81
GRANT	186	693	185	15.46
OCONTO	212	693	41	3.44
PEPIN	233	693	117	9.78

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Channel Assignment # 249

PRICE

FCC assignment # 619 Frequency assignment # 18

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	17	619	193	16.13
MARQUETTE	169	619	115	10.48

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
POLK	129	618	90	8.27

Channel Assignment # 250

PRICE

FCC assignment # 690 Frequency assignment # 65

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
KEWAUNEE	29	691	143	13.02
WAUSHARA	59	689	101	9.24

Channel Assignment # 251

PRICE

FCC assignment # 643 Frequency assignment # 30

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	7	643	169	9.99
GREEN LAKE	64	643	125	11.45
JACKSON	90	643	77	6.49
BURNETT	257	643	78	7.15

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	74	644	40	2.71
DUNN	103	644	73	6.13
PIERCE	192	642	101	9.26
VERNON	218	644	126	11.52
BAYFIELD	236	642	44	4.02
FOREST	243	642	67	6.12

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Channel Assignment # 252

MARINETTE

FCC assignment # 665 Frequency assignment # 52

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WINNEBAGO	160	665	75	7.56
TAYLOR	181	665	96	8.83
BURNETT	258	665	183	18.38

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

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Channel Assignment # 253

MARINETTE

FCC assignment # 615 Frequency assignment # 14

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	5	615	180	10.64
CALUMET	44	615	69	6.98

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WAUSHARA	60	616	87	8.79
MENOMINEE	78	614	31	3.11
RUSK	117	614	124	10.39
BARRON	119	616	167	13.94
BUFFALO	228	614	177	17.79
LANGLADE	238	616	29	2.97

Channel Assignment # 254

MARINETTE

FCC assignment # 700 Frequency assignment # 75

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	18	700	198	16.50
TRENPEALEAU	48	700	164	16.48
PORTAGE	66	700	82	6.84
RUSK	118	700	124	10.39

Adjacent channel assignment(s)

Name	Channel	FCC	Separation	D to R

	Assignment #	Channel #	(mi)	Ratio
MANITOWAC	40	699	60	5.05
ST CROIX	112	701	199	18.10
POLK	124	699	196	19.62
BROWN	143	701	38	3.86
SAUK	223	701	143	14.30
JUNEAU	227	699	121	12.20

Channel Assignment # 255

MARINETTE

FCC assignment # 727 Frequency assignment # 90

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
LAFAYETTE	19	727	198	16.50
TRENPEALEAU	46	727	164	16.40
SAWYER	114	727	125	10.43
WAUPACA	166	727	59	4.90

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MANITOWAC	38	728	60	5.05
CRAWFORD	81	728	187	18.71
CLARK	95	728	115	9.64
CHIPPEWA	96	726	137	13.80
ST CROIX	106	728	199	18.10
IRON	130	726	94	9.40
BROWN	144	726	38	3.86
MARQUETTE	168	728	106	10.67
SAUK	224	726	143	14.30
LANGLADE	237	728	29	2.97

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Channel Assignment # 256

BURNETT

FCC assignment # 694 Frequency assignment # 69

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
CALUMET	45	694	218	21.87
TAYLOR	179	694	73	6.16
ADAMS	203	694	153	19.15

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
GREEN LAKE	62	695	196	24.58
MONROE	85	695	133	13.33
DUNN	104	695	42	3.58
GRANT	186	693	196	19.64
OCONTO	212	693	176	17.62
PEPIN	233	693	73	14.71

Channel Assignment # 257

BURNETT

FCC assignment # 643 Frequency assignment # 30

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
IOWA	7	643	209	12.34
GREEN LAKE	64	643	196	24.58
JACKSON	90	643	102	8.54
PRICE	251	643	78	7.15

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	74	644	112	7.47
DUNN	103	644	42	3.58
PIERCE	192	642	65	8.19
VERNON	218	644	150	18.77
BAYFIELD	236	642	39	3.91
FOREST	243	642	156	15.63

Channel Assignment # 258

BURNETT

FCC assignment # 665 Frequency assignment # 52

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
WINNEBAGO	160	665	199	19.92
TAYLOR	181	665	73	6.16
MARINETTE	252	665	183	18.38

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio

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Channel Assignment # 259

BURNETT

FCC assignment # 602 Frequency assignment # 1

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	73	602	112	7.47
PIERCE	195	602	65	8.19
VERNON	219	602	150	18.77

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
JACKSON	91	603	102	8.54
SAWYER	113	603	38	3.22
WINNEBAGO	159	603	199	19.92

Channel Assignment # 260

BURNETT

FCC assignment # 622 Frequency assignment # 21

Cochannel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
MARATHON	71	622	112	7.47
PIERCE	196	622	65	8.19
VERNON	216	622	150	18.77

Adjacent channel assignment(s)

Name	Channel Assignment #	FCC Channel #	Separation (mi)	D to R Ratio
JACKSON	89	623	102	8.54
SAWYER	115	623	38	3.22
WINNEBAGO	161	623	199	19.92

Regional plan for : wi

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* Input Data For Assignment Program
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********** Single Site Systems **********

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* GREEN	42 40 21	89 36 41	4	15.00	-8.20	100.00	3
* IOWA	43 1 2	90 7 10	3	17.00	-5.00	100.00	3
* RICHLAND	43 23 6	90 26 45	3	14.00	-9.60	100.00	3
* LA CROSSE	43 55 6	91 6 8	6	15.00	-1.20	200.00	2

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

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* LAFAYETTE	A 42 40 21	90 0 38	3	12.00	-12.40	100.00	3
* LAFAYETTE	B 42 40 21	90 13 42	3	12.00	-12.40	100.00	3
* COLUMBIA	A 43 28 16	89 10 34	4	12.00	-12.40	100.00	3
* COLUMBIA	B 43 28 16	89 30 10	4	12.00	-12.40	100.00	3
* WASHBURN	A 45 48 13	91 46 55	3	14.00	-9.60	100.00	3
* WASHBURN	B 46 0 24	91 49 7	3	14.00	-9.60	100.00	3
* KEWAUNEE	A 44 25 54	87 39 12	3	8.00	-5.20	100.00	2
* KEWAUNEE	B 44 34 2	87 36 39	3	8.00	-5.20	100.00	2
* OUTAGAMIE	A 44 24 54	88 22 47	7	13.00	-11.00	100.00	3
* OUTAGAMIE	B 44 24 54	88 29 21	7	13.00	-11.00	100.00	3
* MANITOWAC	A 44 12 43	87 43 13	5	12.00	-5.30	200.00	2

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* MANITOWAC	B 44 2 34	87 50 54	5	12.00	-5.30	200.00	2
* CALUMET	A 44 7 38	88 13 6	4	10.00	-1.00	100.00	2
* CALUMET	B 44 1 33	88 13 6	4	10.00	-1.00	100.00	2
* TRENPEALEAU	A 44 29 55	91 21 30	4	10.00	-15.20	100.00	3
* TRENPEALEAU	B 44 7 17	91 21 30	4	10.00	-15.20	100.00	3
* TRENPEALEAU	C 44 17 44	91 21 30	4	10.00	-15.20	100.00	3
* EAU CLAIRE	A 44 43 8	91 3 42	5	10.00	-1.00	100.00	2
* EAU CLAIRE	B 44 43 8	91 30 4	5	10.00	-1.00	100.00	2
* EAU CLAIRE	C 44 43 8	91 16 53	5	10.00	-1.00	100.00	2
* SHAWANO	A 44 44 11	88 27 54	4	11.00	-13.00	100.00	3
* SHAWANO	B 44 52 18	89 1 13	4	11.00	-13.00	100.00	3
* SHAWANO	C 44 48 14	88 45 51	4	11.00	-13.00	100.00	3
* WAUSHARA	A 44 6 25	89 1 48	3	10.00	-15.20	100.00	3

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* WAUSHARA	B 44 6 25	89 29 10	3	10.00	-15.20	100.00	3
* WAUSHARA	C 44 6 25	89 13 47	3	10.00	-15.20	100.00	3
* GREEN LAKE	A 43 52 12	89 1 50	3	8.00	-18.60	100.00	3
* GREEN LAKE	B 43 44 5	89 1 50	3	8.00	-18.60	100.00	3
* GREEN LAKE	C 43 44 5	89 6 57	3	8.00	-18.60	100.00	3
* PORTAGE	A 44 22 40	89 24 54	5	12.00	-12.40	100.00	3
* PORTAGE	B 44 30 47	89 24 54	5	12.00	-12.40	100.00	3
* PORTAGE	C 44 32 49	89 37 18	5	12.00	-12.40	100.00	3
* MARATHON	A 44 53 42	89 26 19	6	15.00	-8.20	100.00	3
* MARATHON	B 44 53 42	90 5 51	6	15.00	-8.20	100.00	3
* MARATHON	C 44 53 42	89 46 5	6	15.00	-8.20	100.00	3
* FLORENCE	A 45 51 7	88 14 39	2	8.00	-18.60	100.00	3
* FLORENCE	B 45 49 23	88 32 13	2	8.00	-18.60	100.00	3
* FLORENCE	C 45 54 36	88 32 13	2	8.00	-18.60	100.00	3

	Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
*	MENOMINEE	A 44 55 29	88 37 10	2	8.00	-18.60	100.00	3
*	MENOMINEE	B 45 1 17	88 37 10	2	8.00	-18.60	100.00	3
*	MENOMINEE	C 45 1 17	88 51 49	2	8.00	-18.60	100.00	3
*	CRAWFORD	A 43 7 56	91 1 35	3	8.00	-18.60	100.00	3
*	CRAWFORD	B 43 21 43	91 3 45	3	8.00	-18.60	100.00	3
*	CRAWFORD	C 43 19 60	90 48 31	3	8.00	-18.60	100.00	3
	CRAWFORD	D 43 13 6	90 48 31	3	8.00	-18.60	100.00	3
*	MONROE	A 43 51 38	90 30 59	4	10.00	-15.20	100.00	3
*	MONROE	B 44 2 4	90 30 59	4	10.00	-15.20	100.00	3
*	MONROE	C 44 2 4	90 44 10	4	10.00	-15.20	100.00	3
*	MONROE	D 43 51 38	90 41 58	4	10.00	-15.20	100.00	3
*	JACKSON	A 44 17 44	90 29 18	5	12.00	-12.40	100.00	3
*	JACKSON	B 44 12 31	91 0 3	5	12.00	-12.40	100.00	3
*	JACKSON	C 44 26 26	91 0 3	5	12.00	-12.40	100.00	3

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* JACKSON	D 44 17 44	90 44 40	5	12.00	-12.40	100.00	3
* CLARK	A 44 33 24	90 30 58	4	12.00	-12.40	100.00	3
* CLARK	B 44 54 16	90 30 58	4	12.00	-12.40	100.00	3
* CLARK	C 44 54 16	90 41 57	4	12.00	-12.40	100.00	3
* CLARK	D 44 38 37	90 41 57	4	12.00	-12.40	100.00	3
* CHIPPEWA	A 45 0 32	91 5 54	5	10.00	-15.20	100.00	3
* CHIPPEWA	B 45 0 32	91 27 52	5	10.00	-15.20	100.00	3
* CHIPPEWA	C 45 10 59	91 5 54	5	10.00	-15.20	100.00	3
* CHIPPEWA	D 45 10 59	91 23 28	5	10.00	-15.20	100.00	3
* DUNN	A 44 50 6	91 52 2	4	12.00	-12.40	100.00	3
* DUNN	B 44 50 6	91 56 26	4	12.00	-12.40	100.00	3
* DUNN	C 45 5 46	91 56 26	4	12.00	-12.40	100.00	3
* DUNN	D 45 5 46	91 52 2	4	12.00	-12.40	100.00	3
* ST CROIX	A 45 4 1	92 20 35	8	11.00	-13.00	100.00	3

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* ST CROIX	B 45 0 32	92 20 35	8	11.00	-13.80	100.00	3
* ST CROIX	C 45 0 32	92 33 46	8	11.00	-13.80	100.00	3
* ST CROIX	D 45 4 1	92 33 46	8	11.00	-13.80	100.00	3
* SAWYER	A 45 48 13	90 51 60	3	12.00	-12.40	100.00	3
* SAWYER	B 45 48 13	91 18 21	3	12.00	-12.40	100.00	3
* SAWYER	C 46 0 24	91 18 21	3	12.00	-12.40	100.00	3
* SAWYER	D 46 0 24	91 11 46	3	12.00	-12.40	100.00	3
* RUSK	A 45 30 49	90 51 60	3	12.00	-12.40	100.00	3
* RUSK	B 45 30 49	91 20 33	3	12.00	-12.40	100.00	3
* RUSK	C 45 27 20	91 20 33	3	12.00	-12.40	100.00	3
* RUSK	D 45 27 20	91 7 22	3	12.00	-12.40	100.00	3
* BARRON	A 45 29 5	91 44 43	4	12.00	-12.40	100.00	3
* BARRON	B 45 29 5	91 55 42	4	12.00	-12.40	100.00	3
* BARRON	C 45 20 23	91 55 42	4	12.00	-12.40	100.00	3
* BARRON	D 45 20 23	91 44 43	4	12.00	-12.40	100.00	3

	Site Name		Site Latitude				Site Longitude			Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
*	POLK	A	45	37	16		92	21	5	7	10.00	-15.20	100.00	3
*	POLK	B	45	19	51		92	21	5	7	10.00	-15.20	100.00	3
*	POLK	C	45	19	51		92	32	4	7	10.00	-15.20	100.00	3
*	POLK	D	45	30	18		92	40	51	7	10.00	-15.20	100.00	3
*	IRON	A	46	4	47		90	7	38	2	10.00	-15.20	100.00	3
*	IRON	B	46	12	54		90	7	38	2	10.00	-15.20	100.00	3
*	IRON	C	46	25	5		90	20	27	2	10.00	-15.20	100.00	3
*	IRON	D	46	16	58		90	20	27	2	10.00	-15.20	100.00	3
*	ASHLAND	A	46	4	47		90	28	8	4	10.00	-15.20	100.00	3
*	ASHLAND	B	46	4	47		90	43	31	4	10.00	-15.20	100.00	3
*	ASHLAND	C	46	33	12		90	43	31	4	10.00	-15.20	100.00	3
*	ASHLAND	D	46	18	60		90	43	31	4	10.00	-15.20	100.00	3
*	BROWN	A	44	31	60		87	52	1	10	8.00	-5.20	100.00	2
*	BROWN	B	44	34	2		88	7	24	10	8.00	-5.20	100.00	2

	Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
*	BROWN	C 44 21 51	88 4 50	10	8.00	-5.20	100.00	2
*	BROWN	D 44 25 54	87 57 9	10	8.00	-5.20	100.00	2
*	SHEBOYGAN	A 43 44 17	87 53 28	6	10.00	-1.80	100.00	2
*	SHEBOYGAN	B 43 44 17	88 1 9	6	10.00	-1.80	100.00	2
*	SHEBOYGAN	C 43 40 14	88 1 9	6	10.00	-1.80	100.00	2
*	SHEBOYGAN	D 43 40 14	87 56 2	6	10.00	-1.80	100.00	2
	FOND DU LAC	A 43 40 14	88 16 32	5	10.00	-1.80	100.00	2
*	FOND DU LAC	B 43 48 21	88 16 32	5	10.00	-1.80	100.00	2
*	FOND DU LAC	C 43 45 55	88 44 43	5	10.00	-1.80	100.00	2
*	FOND DU LAC	D 43 45 55	88 29 21	5	10.00	-1.80	100.00	2
*	WINNEBAGO	A 44 1 33	88 33 36	6	10.00	-1.80	100.00	2
*	WINNEBAGO	B 44 7 38	88 33 36	6	10.00	-1.80	100.00	2
*	WINNEBAGO	C 44 7 38	88 41 18	6	10.00	-1.80	100.00	2
*	WINNEBAGO	D 44 1 33	88 41 18	6	10.00	-1.80	100.00	2

	Site Name		Site Latitude				Site Longitude			Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
*	WAUPACA	A	44	23	53		88	56	40	4	12.00	-12.40	100.00	3
*	WAUPACA	B	44	23	53		89	1	48	4	12.00	-12.40	100.00	3
*	WAUPACA	C	44	31	60		89	1	48	4	12.00	-12.40	100.00	3
*	WAUPACA	D	44	31	60		88	51	33	4	12.00	-12.40	100.00	3
*	MARQUETTE	A	43	54	14		89	17	13	3	8.00	-18.60	100.00	3
*	MARQUETTE	B	43	54	14		89	27	28	3	8.00	-18.60	100.00	3
*	MARQUETTE	C	43	44	5		89	27	28	3	8.00	-18.60	100.00	3
*	MARQUETTE	D	43	44	5		89	22	20	3	8.00	-18.60	100.00	3
*	WOOD	A	44	22	22		89	57	4	5	12.00	-12.40	100.00	3
*	WOOD	B	44	22	22		90	5	51	5	12.00	-12.40	100.00	3
*	WOOD	C	44	32	49		90	8	3	5	12.00	-12.40	100.00	3
*	WOOD	D	44	32	49		90	3	39	5	12.00	-12.40	100.00	3
*	LINCOLN	A	45	14	35		89	37	18	4	10.00	-15.20	100.00	3
*	LINCOLN	B	45	25	1		89	37	18	4	10.00	-15.20	100.00	3
*	LINCOLN	C	45	25	1		89	50	29	4	10.00	-15.20	100.00	3

	Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
*	LINCOLN	D 45 14 35	89 50 29	4	10.00	-15.20	100.00	3
*	TAYLOR	A 45 14 35	90 14 38	4	12.00	-12.40	100.00	3
*	TAYLOR	B 45 14 35	90 43 12	4	12.00	-12.40	100.00	3
*	TAYLOR	C 45 11 6	90 43 12	4	12.00	-12.40	100.00	3
*	TAYLOR	D 45 11 6	90 25 37	4	12.00	-12.40	100.00	3
*	VILAS	A 46 1 34	89 13 22	3	11.00	-13.80	100.00	3
	VILAS	B 46 1 34	89 50 43	3	11.00	-13.80	100.00	3
*	VILAS	C 46 1 34	89 33 9	3	11.00	-13.80	100.00	3
*	VILAS	D 46 8 31	89 44 8	3	11.00	-13.80	100.00	3
*	GRANT	A 43 4 29	90 35 28	6	10.00	-15.20	100.00	3
*	GRANT	B 42 55 52	90 57 14	6	10.00	-15.20	100.00	3
*	GRANT	C 42 36 55	90 35 28	6	10.00	-15.20	100.00	3
*	GRANT	D 42 47 15	90 50 42	6	10.00	-15.20	100.00	3
*	GRANT	E 42 52 25	90 35 28	6	10.00	-15.20	100.00	3

Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
* PIERCE	A 44 38 37	92 16 25	7	8.00	-18.60	100.00	3
* PIERCE	B 44 45 34	92 16 25	7	8.00	-18.60	100.00	3
* PIERCE	C 44 45 34	92 40 35	7	8.00	-18.60	100.00	3
* PIERCE	D 44 45 34	92 29 36	7	8.00	-18.60	100.00	3
* PIERCE	E 44 40 21	92 29 36	7	8.00	-18.60	100.00	3
* DOUGLAS	A 46 35 14	91 45 2	4	10.00	-15.20	100.00	3
* DOUGLAS	B 46 16 58	91 45 2	4	10.00	-15.20	100.00	3
* DOUGLAS	C 46 16 58	92 5 32	4	10.00	-15.20	100.00	3
* DOUGLAS	D 46 33 12	92 5 32	4	10.00	-15.20	100.00	3
* DOUGLAS	E 46 27 7	91 55 17	4	10.00	-15.20	100.00	3
* ADAMS	A 43 44 5	89 42 50	3	8.00	-18.60	100.00	3
* ADAMS	B 44 8 27	89 42 50	3	8.00	-18.60	100.00	3
* ADAMS	C 43 56 16	89 42 50	3	8.00	-18.60	100.00	3
* ADAMS	D 44 6 25	89 55 39	3	8.00	-18.60	100.00	3
* ADAMS	E 43 56 16	89 50 32	3	8.00	-18.60	100.00	3

	Site Name	Site Latitude	Site Longitude	Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
*	DOOR	A 45 22 42	86 53 59	5	8.00	-5.20	100.00	2
*	DOOR	B 45 10 31	87 4 58	5	8.00	-5.20	100.00	2
*	DOOR	C 45 0 5	87 13 46	5	8.00	-5.20	100.00	2
*	DOOR	D 44 49 38	87 22 33	5	8.00	-5.20	100.00	2
*	DOOR	E 44 46 9	87 35 44	5	8.00	-5.20	100.00	2
*	OCONTO	A 44 54 51	87 57 42	5	10.00	-15.20	100.00	3
*	OCONTO	B 44 47 54	88 6 29	5	10.00	-15.20	100.00	3
	OCONTO	C 44 58 20	88 17 28	5	10.00	-15.20	100.00	3
*	OCONTO	D 45 12 15	88 26 15	5	10.00	-15.20	100.00	3
*	OCONTO	E 45 15 44	88 38 39	5	10.00	-15.20	100.00	3
*	VERNON	A 43 38 37	90 24 35	4	8.00	-18.60	100.00	3
*	VERNON	B 43 38 37	91 8 7	4	8.00	-18.60	100.00	3
*	VERNON	C 43 38 37	90 39 49	4	8.00	-18.60	100.00	3
*	VERNON	D 43 38 37	90 55 3	4	8.00	-18.60	100.00	3
*	VERNON	E 43 29 60	91 5 56	4	8.00	-18.60	100.00	3
*	VERNON	F 43 29 60	90 48 31	4	8.00	-18.60	100.00	3

	Site Name		Site Latitude				Site Longitude			Number of Channels	Coverage (mi)	ERP (Db/KW)	Antenna Height (ft)	Environment Type
*	DOOR	A	45	22	42		86	53	59	5	8.00	-5.20	100.00	2
*	DOOR	B	45	10	31		87	4	58	5	8.00	-5.20	100.00	2
*	DOOR	C	45	0	5		87	13	46	5	8.00	-5.20	100.00	2
*	DOOR	D	44	49	38		87	22	33	5	8.00	-5.20	100.00	2
*	DOOR	E	44	46	9		87	35	44	5	8.00	-5.20	100.00	2
*	OCONTO	A	44	54	51		87	57	42	5	10.00	-15.20	100.00	3
*	OCONTO	B	44	47	54		88	6	29	5	10.00	-15.20	100.00	3
	OCONTO	C	44	58	20		88	17	28	5	10.00	-15.20	100.00	3
*	OCONTO	D	45	12	15		88	26	15	5	10.00	-15.20	100.00	3
*	OCONTO	E	45	15	44		88	38	39	5	10.00	-15.20	100.00	3
*	VERNON	A	43	38	37		90	24	35	4	8.00	-18.60	100.00	3
*	VERNON	B	43	38	37		91	8	7	4	8.00	-18.60	100.00	3
*	VERNON	C	43	38	37		90	39	49	4	8.00	-18.60	100.00	3
*	VERNON	D	43	38	37		90	55	3	4	8.00	-18.60	100.00	3
*	VERNON	E	43	29	60		91	5	56	4	8.00	-18.60	100.00	3
*	VERNON	F	43	29	60		90	48	31	4	8.00	-18.60	100.00	3

Sites and Assigned Channels

BUFFALO	614	648	718		
PEPIN	617	693	716		
BAYFIELD	610	642	722		
LANGLADE	616	703	728		
FOREST	608	642	662	683	719
ONEIDA	613	646	692	717	
PRICE	619	643	690		
MARINETTE	615	665	700	727	
BURNETT	602	622	643	665	694

* Old equipment requiring even channel numbers

Sites and Excluded Channels

GREEN	602	603	604	605	606	607	608	609	610	611
	612	614	615	616	617	618	619	620	621	622
	623	624	625	626	627	641	642	643	644	645
	646	647	648	649	650	651	652	653	654	655
	656	657	658	659	660	661	662	663	664	665
	678	679	681	682	683	684	685	686	687	688
	689	690	691	692	693	694	695	696	697	698
	699	701	716	717	718	719	720	721	722	723
	724	725	726	727	728	729	730	731	732	733
	734	735	736	737	739	740	741	754	756	757
	758	759	760	761	762	763	764	765	766	767
	768	769	770	771	772	773	775	776	777	778
	779	792	793	794	795	796	797	798	799	800
	801	802	803	804	806	807	808	809	810	811
	812	813	814	818	819					
IOWA	602	603	605	606	607	608	609	610	611	614
	617	620	621	622	623	624	626	641	642	644
	645	646	647	648	649	651	653	658	661	662
	663	664	665	678	682	683	684	685	688	690
	691	692	693	694	695	698	716	718	720	723
	725	728	729	731	732	733	734	735	736	737
	739	740	757	759	760	761	762	763	764	765
	768	769	770	771	773	775	777	779	792	793
	794	795	796	797	799	800	801	802	803	806
	807	808	810	811	812	813	819			

Sites and Excluded Channels

RICHLAND	602 608 610 621 623 645 658 662 664 683 691 695 718 723 725 732 736 761 762 763 765 769 771 792 793 795 800 802 807 812 813
LA CROSSE	none
LAFAYETTE	602 603 605 606 607 608 609 610 611 612 613 616 617 618 620 621 622 623 624 626 641 642 643 644 645 647 648 649 651 652 653 654 655 657 658 659 660 661 662 664 678 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 698 717 718 719 720 721 722 723 724 725 726 728 729 730 731 732 733 734 735 736 737 740 756 757 758 761 762 763 764 765 766 767 768 769 770 771 772 773 775 778 792 793 794 795 797 798 799 800 801 802 803 804 806 807 808 809 810 811 812 813 814 817 818 819
COLUMBIA	602 603 604 605 606 607 608 609 610 611 613 614 615 616 618 620 621 622 624 625 626 627 640 641 642 644 645 646 647 648 649 651 657 659 661 662 663 664 665 678 680 682 683 684 688 690 691 692 693 694 696 698 716 717 720 728 731 732 733 734 735 736 737 738 739 740 741 754 756 758

Sites and Excluded Channels

	759 760 761 762 763 764 767 768 769 770
	771 772 773 775 776 777 778 779 792 793
	794 795 796 797 798 799 800 801 802 803
	804 805 806 807 808 811 812 813 816
WASHBURN	none
KEWAUNEE	602 622 642 644 649 657 678 680 687 702
	718 741 754 756 764 768 770 774 775 777
	778 779 793 795 798 799 800 802 804 806
	808 810 816 817 818 819
OUTAGAMIE	602 608 610 614 620 621 622 641 642 644
	645 649 651 657 662 664 678 680 682 683
	687 691 702 716 718 732 734 736 737 739
	741 754 756 759 761 762 763 764 768 769
	770 771 773 774 775 777 778 779 793 795
	798 799 800 802 804 806 807 808 810 812
	813 816 817 818 819
MANITOWAC	602 606 609 611 613 614 616 618 620 622
	640 641 642 644 649 651 657 678 680 682
	684 687 696 702 716 718 734 737 739 741
	754 756 759 762 764 768 770 771 773 774
	775 777 778 779 793 795 798 799 800 802
	804 806 808 810 813 816 817 818 819
CALUMET	602 605 606 608 609 610 611 613 614 616
	618 620 621 622 626 640 641 642 644 645
	647 649 651 657 662 664 678 680 682 683

Sites and Excluded Channels

	684 691 693 696 716 732 734 736 737 739
	741 754 756 759 761 762 763 764 768 769
	770 771 773 775 777 779 793 795 797 800
	802 806 807 812 813 816
TRENPEALEAU	none
EAU CLAIRE	none
SHAWANO	602 608 610 621 622 645 657 662 664 680
	683 687 691 702 718 732 736 761 763 769
	774 778 779 793 795 798 799 800 802 804
	806 807 808 810 812 817 818 819
WAUSHARA	605 607 608 609 610 611 614 620 621 622
	626 641 642 644 645 646 647 649 651 661
	662 663 664 665 678 680 682 683 684 690
	691 692 693 716 731 732 733 734 735 736
	737 739 741 756 759 760 761 762 763 764
	768 769 770 771 773 777 779 792 793 794
	795 796 797 799 800 801 802 803 806 807
	808 811 812 813
GREEN LAKE	602 605 606 607 608 609 610 611 613 614
	615 616 618 620 621 622 626 640 641 642
	644 645 646 647 649 651 657 661 662 663
	664 665 678 680 682 683 684 690 691 692
	693 696 716 717 731 732 733 734 735 736
	737 738 739 740 741 754 756 758 759 760
	761 762 763 764 767 768 769 770 771 772

Sites and Excluded Channels

	773 775 776 777 778 779 792 793 794 795
	796 797 799 800 801 802 803 805 806 807
	808 811 812 813 816
PORTAGE	607 608 609 610 611 614 620 621 622 641
	644 645 646 661 662 663 664 665 682 683
	684 690 691 692 716 731 732 733 734 735
	736 737 739 759 760 761 762 763 764 768
	769 770 771 777 779 792 793 794 795 796
	799 800 801 802 803 806 807 808 811 812
	813
MARATHON	608 610 621 645 662 664 683 691 732 736
	761 763 769 793 795 800 802 807 812
FLORENCE	602 603 604 605 606 607 622 623 624 625
	626 627 645 647 649 657 658 659 660 665
	680 681 682 683 684 685 687 690 691 692
	693 695 696 697 699 701 702 716 718 720
	721 722 725 729 736 737 738 739 740 741
	754 755 756 757 758 759 762 763 764 765
	766 767 768 769 770 771 772 774 776 777
	778 779 792 793 794 795 796 797 798 799
	800 801 804 805 806 807 808 809 810 811
	812 814 815 816 817 818 819
MENOMINEE	602 622 657 680 687 702 718 774 778 779
	798 799 800 804 806 808 810 817 818 819

Sites and Excluded Channels

CRAWFORD	602 608 610 621 623 645 658 662 664 683 691 695 718 723 725 732 736 761 762 763 765 769 771 792 793 795 800 802 807 812 813
MONROE	608 610 621 645 662 664 683 691 732 736 761 763 769 793 795 800 802 807 812
JACKSON	608 610 621 645 662 664 683 691 732 736 761 763 769 793 795 800 802 807 812
CLARK	608 610 621 645 662 664 683 691 732 736 761 763 769 793 795 800 802 807 812
CHIPPEWA	none
DUNN	none
ST CROIX	none
SAWYER	none
RUSK	none
BARRON	none
POLK	none
IRON	602 603 604 606 622 623 624 626 644 645 646 647 648 649 650 664 665 682 684 693 694 695 696 697 698 699 700 701 702 716 725 728 729 730 736 737 738 739 756 757 758 759 763 765 766 767 768 770 771 772 776 777 778 779 792 794 795 796 797 798 799 801 804 805 806 807 808 809 814 815 816 817 818 819

Sites and Excluded Channels

ASHLAND	603	606	623	626	645	647	649	665	682	684
	693	695	697	699	701	716	725	729	736	738
	756	758	763	765	767	771	776	778	792	794
	795	796	798	801	805	808	814	815	816	818
BROWN	602	614	620	622	641	642	644	649	651	657
	678	680	682	687	702	716	718	734	737	739
	741	754	756	759	762	764	768	770	771	773
	774	775	777	778	779	793	795	798	799	800
	802	804	806	808	810	813	816	817	818	819
SHEBOYGAN	602	603	605	606	609	611	613	614	615	616
	618	619	620	621	622	623	626	640	641	642
	643	644	645	647	648	649	650	651	652	657
	664	665	678	679	680	681	682	683	684	691
	692	693	694	696	716	717	732	733	734	735
	736	737	738	739	740	741	754	755	756	757
	758	759	760	761	762	763	764	765	767	768
	769	770	771	772	773	774	775	776	777	778
	779	792	793	794	795	796	797	798	799	800
	801	802	803	805	806	807	809	811	812	813
	814	815	816	817						
FOND DU LAC	602	603	605	606	608	609	610	611	613	614
	615	616	618	619	620	621	622	623	626	640
	641	642	643	644	645	647	648	649	650	651

Sites and Excluded Channels

	652 657 662 664 665 678 679 680 681 682
	683 684 691 692 693 694 696 716 717 732
	733 734 735 736 737 738 739 740 741 754
	755 756 757 758 759 760 761 762 763 764
	765 767 768 769 770 771 772 773 774 775
	776 777 778 779 792 793 794 795 796 797
	798 799 800 801 802 803 805 806 807 809
	811 812 813 814 815 816 817
WINNEBAGO	602 605 608 609 610 614 616 620 621 622
	626 641 642 644 645 647 649 651 657 662
	664 678 680 682 683 684 691 693 696 716
	732 734 736 737 739 741 754 756 759 761
	762 763 764 768 769 770 771 773 775 777
	779 793 795 797 800 802 806 807 812 813
	816
WAUPACA	608 610 614 621 641 645 662 664 683 691
	716 732 734 736 737 739 759 761 762 763
	768 769 770 771 777 779 793 795 800 802
	806 807 812
MARQUETTE	605 607 608 609 610 611 613 614 615 616
	620 621 622 626 640 641 642 644 645 646
	647 649 651 657 661 662 663 664 665 678
	680 682 683 684 690 691 692 693 696 716
	717 731 732 733 734 735 736 737 738 739
	740 741 756 758 759 760 761 762 763 764

Sites and Excluded Channels

	767 768 769 770 771 772 773 776 777 778
	779 792 793 794 795 796 797 799 800 801
	802 803 805 806 807 808 811 812 813
WOOD	607 608 609 610 611 620 621 622 644 645
	646 661 662 663 664 665 682 683 684 690
	691 692 731 732 733 735 736 737 760 761
	762 763 764 768 769 770 792 793 794 795
	796 799 800 801 802 803 806 807 808 811
	812 813
LINCOLN	603 623 645 647 649 665 695 697 699 701
	729 738 758 767 771 778 798 805 808 818
TAYLOR	*none*
VILAS	602 603 604 605 606 607 622 623 624 625
	626 627 644 645 646 647 648 649 650 657
	659 664 665 680 681 682 683 684 685 687
	691 692 693 694 695 696 697 698 699 700
	701 702 716 717 718 721 724 725 726 728
	729 730 735 736 737 738 739 754 755 756
	757 758 759 762 763 764 765 766 767 768
	770 771 772 774 775 776 777 778 779 792
	793 794 795 796 797 798 799 800 801 802
	804 805 806 807 808 809 810 811 813 814
	815 816 817 818 819
GRANT	602 603 606 608 609 610 611 613 616 617

Sites and Excluded Channels

	618 621 622 623 624 642 644 645 647 648
	653 655 657 658 659 661 662 664 681 682
	683 684 685 688 690 691 694 695 696 717
	718 719 720 721 722 723 724 725 726 729
	731 732 733 735 736 737 757 758 761 762
	763 764 765 766 767 769 770 771 772 773
	775 792 793 794 795 797 799 800 802 804
	807 809 810 811 812 813 814 817 819
PIERCE	none
DOUGLAS	none
ADAMS	605 607 608 609 610 611 614 620 621 622
	625 641 644 645 646 647 661 662 663 664
	665 682 683 684 690 691 692 693 716 731
	732 733 734 735 736 737 739 759 760 761
	762 763 764 768 769 770 771 777 779 792
	793 794 795 796 797 799 800 801 802 803
	806 807 808 811 812 813
DOOR	602 603 604 605 606 607 621 622 623 624
	625 626 627 640 649 654 656 657 658 659
	679 680 681 682 683 684 685 686 687 688
	691 693 699 701 702 703 716 717 718 719
	720 721 723 724 725 727 730 736 737 738
	739 740 741 756 758 761 763 764 765 766
	767 768 769 770 771 772 773 774 775 776
	777 778 779 792 794 795 796 797 798 799

Sites and Excluded Channels

	800 801 802 803 804 805 806 807 808 809
	810 811 813 814 815 816 817 818 819
OCONTO	602 603 605 621 622 623 625 656 657 658
	659 679 680 681 682 684 686 687 688 691
	696 701 702 703 717 718 719 721 739 754
	758 763 767 770 771 773 774 775 777 778
	779 792 793 796 797 798 799 800 801 803
	804 805 806 807 808 809 810 811 816 817
	818 819
VERNON	608 610 621 645 662 664 683 691 732 736
	761 763 769 793 795 800 802 807 812
SAUK	602 603 605 606 607 608 609 610 611 614
	616 617 620 621 622 623 624 626 641 642
	644 645 646 647 648 653 657 658 661 662
	663 664 665 682 683 684 685 688 690 691
	692 693 694 695 696 698 716 718 720 723
	725 728 729 731 732 733 734 735 736 737
	739 757 759 760 761 762 763 764 765 768
	769 770 771 777 779 792 793 794 795 796
	797 799 800 801 802 803 806 807 808 811
	812 813 819
JUNEAU	607 608 609 610 611 614 620 621 622 641
	644 645 646 661 662 663 664 665 682 683
	684 690 691 692 716 731 732 733 734 735
	736 737 739 759 760 761 762 763 764 768

Sites and Excluded Channels

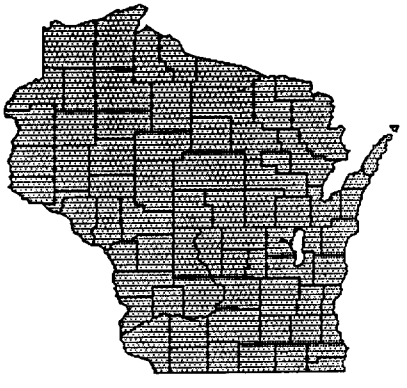
	769 770 771 777 779 792 793 794 795 796
	799 800 801 802 803 806 807 808 811 812
	813
BUFFALO	none
PEPIN	none
BAYFIELD	606 626 682 684 693 716 725 736 756 763
	765 776 792 794 795 796 801 814 815 816
LANGLADE	602 603 605 622 623 625 657 659 680 682
	684 687 691 696 702 718 721 739 754 758
	763 767 770 771 774 778 779 792 793 796
	798 799 800 804 805 806 808 810 811 816
	817 818 819
FOREST	602 603 604 605 606 607 622 623 624 625
	626 627 645 647 649 657 659 665 680 682
	684 687 690 691 692 693 695 696 697 699
	701 702 716 718 720 721 722 725 729 736
	738 739 740 754 755 756 757 758 759 763
	765 766 767 768 769 770 771 772 774 776
	777 778 779 792 793 794 795 796 797 798
	799 800 801 804 805 806 807 808 809 810
	811 812 814 815 816 817 818 819
ONEIDA	603 605 606 623 625 626 645 647 649 659
	665 682 684 691 693 695 696 697 699 701
	716 721 725 729 736 738 739 754 756 758

Sites and Excluded Channels

	763 765 767 770 771 776 778 792 793 794
	795 796 798 801 805 806 808 811 814 815
	816 817 818
PRICE	603 606 623 626 645 647 649 665 692 694
	693 695 697 699 701 716 725 729 736 738
	756 758 763 765 767 771 776 778 792 794
	795 796 798 801 805 808 814 815 816 818
MARINETTE	602 603 604 605 607 621 622 623 624 625
	627 656 657 658 659 660 679 680 681 682
	683 684 685 686 687 688 691 696 701 702
	703 717 718 719 721 737 739 741 754 757
	758 759 762 763 764 765 767 770 771 772
	773 774 775 777 778 779 792 793 794 795
	796 797 798 799 800 801 803 804 805 806
	807 808 809 810 811 814 815 816 817 818
	819
BURNETT	none

APPENDIX H

Glossary



GLOSSARY

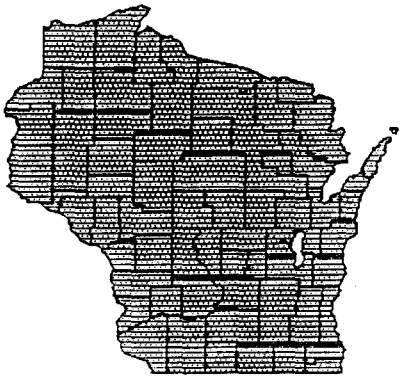
(Definitions of terms, abbreviations, and acronyms as used in this document.)

ADJACENT CHANNELS	Channels which are separated by 12.5 KHz in the 821-824 band.
AGL	Above Ground Level; altitude.
APCO	Associated Public-Safety Communications Officers, Inc.
AVL	Automatic Vehicle Locator; a data transmission device used to determine where a field unit is.
CALLING CHANNEL	FCC Channel 601; use of this channel is restricted to establishing contact among individual agencies for mutual aid purposes.
CHANNEL	An assigned portion of the radio frequency spectrum which is used for the transmission of information. A channel has a center frequency and a definite bandwidth. A term also commonly used to refer to a paired (but offset) combination of two portions of spectrum used for mobile relay operation; whereby one portion of spectrum is used to transmit while the other portion is used to simultaneously receive.
CHANNEL LOADING	The number of mobile transmitters authorized to operate on a particular channel within the same service area.
CO-CHANNEL	Utilization of the same channel by two or more licensees.
CONVENOR	The individual charged with organizing a Planning Region's initial meeting.
THE COMMISSION	The Federal Communications Commission; also the FCC.
THE COMMITTEE	The Wisconsin (Region 45) 800 MHz Regional Planning Committee.
COMMITTEE OF THE WHOLE	All members present at a scheduled Regional Planning meeting.
COMMON CHANNELS	The five channels specified in the National Plan which are reserved for mutual interagency communication; a Calling Channel and four Tactical Channels.
CONVENTIONAL OPERATION	A method of operation in which one or more radio frequency channels are assigned to mobile and base stations but are not employed as a trunked group.
CROSS SYSTEM PATCH	A means of linking disparate radio systems.

dB	Prediction of a receiver input signal taking into account radio propagation at the particular frequency of interest.
40 dB	The 40 DB contour locates the area within which a receiver will receive a desired 5.0 microvolt input signal (with a 90% reliability factor) at the appropriate frequency.
INTEROPERABILITY	Communication between, or among, radio units of different agencies.
LOCAL FREQUENCY ADVISOR	An APCO designated individual charged with managing spectrum usage within a state.
MDT	Mobile Data Terminal; a field communications device used to transmit and receive data impulses over radio frequencies.
MOBILE RELAY STATION	A base station in the mobile service authorized to retransmit automatically on a mobile service frequency; communications which originate on the transmitting frequency of the mobile station.
MUTUAL AID INCIDENT	A situation posing a threat to the public safety which requires the services of agencies from differing jurisdictions or services.
NPSPAC	National Public Safety Planning Advisory Committee
THE PLAN	The Public Safety Communications plan for Region 45.
PRIMARY DISPATCH CENTER	A Public Safety Communications Center designated as a controller of the Common channels.
RCRC	The Regional Conformance Review Committee; a standing body of individuals charged with administering the Plan within the Region.
THE REGION	The Wisconsin (Region 45) 800 MHz Planning Region; 62 counties within Wisconsin
REPEAT DISABLE	The means of inhibiting Mobile Relay.
SLMRPC	The Southern Lake Michigan Regional Planning Committee.
TACTICAL CHANNELS	The four Common Channels on which interagency communications will be conducted during a mutual aid incident.
TRUNKED OPERATION	A method of operation in which a number of radio frequency channel pairs are assigned to mobile and base stations in the system for use as a trunk group.
VACATED FREQUENCIES	Those frequencies returned for re-allocation.

APPENDIX I

Letters of Concurrence From Adjacent Regions



WISCONSIN REGION 45

June 10, 1992

Clarence Peecher
Chairman, Southern Lake Michigan Region 54
State Police Communications Bureau
531 Sangamon Ave.
Springfield, IL 62702

Dear Clarence:

Enclosed is the Wisconsin 800 Mhz plan for the 821-824/866-869 portion of the spectrum. This plan is for that portion of Wisconsin that was not part of the Southern Lake Michigan Region (Region 54). This plan was unanimously approved by a general meeting of 800 MHz participants held on May 23, 1992 at Fond du Lac, Wisconsin.

Please review this plan and respond in writing to any concerns that may adversely affect your region. We have set a cut off date of July 10, 1992 for comments. We have solicited comments from you and all adjacent regions to region 45. We intend to submit this plan to the Federal Communications Commission on July 20, 1992.

Thank you for your cooperation.

Richard I. Shulak, P.E.
Chairman Region 45
P.O. Box 7912
Madison, WI. 53707-7912
(608) 267-9799

Wisconsin Department of Transportation

Tommy G. Thompson
Governor

Charles H. Thompson
Secretary

DIVISION OF STATE PATROL
4802 Sheboygan Avenue
P.O. Box 7912
Madison, WI 53707-7912

Regional Conformance Review Committee Committee
Clarence Peecher, Chairman
Illinois State Police
531 Sangamon Ave.
Springfield, Il 62702

July 7, 1992

Dear Clarence:

I called Dave Held on July 6, 1992 to discuss Michigan's area of concerns. We reached resolution on all points. Enclosed is a copy of a letter that I sent to David Held.

Regarding their item one, I've add a page immediately before the F.C.C Channel Assignments. Please add this page to your copy of the Wisconsin Plan. I feel that this addition to the Wisconsin plan should satisfy your concerns for Regions 54 and 13 also. Please advise by letter if this is correct.

Items 2 through 5 dealt with co-channel assignments between Michigan and Wisconsin. This probably does not concern your regions, but I included it for your information.

In my letter to Michigan, I've computed the distances between sites based on the sites proposed locations. As you can see, the separations are more than adequate, but even so, Michigan and Wisconsin have agreed to keep each other informed on any construction that would involve the use of those specific channels.

I hope this resolves all issues with our plan. I hope to receive a letter from you from both region 13 and region 54 stating your satisfaction with the proposed changes.

Sincerely,

Richard J. Shulak, P.E.
Chairman, Region 45

DT68

Wisconsin Department of Transportation

Tommy G. Thompson
Governor

Charles H. Thompson
Secretary

DIVISION OF STATE PATROL
4802 Sheboygan Avenue
P.O. Box 7912
Madison, WI 53707-7912

Michigan Public Safety
Frequency Advisory Committee
Mr. David Held, Frequency Advisor
714 South Harrison Road
East Lansing, MI. 48823

July 6, 1992

Dear Mr. Held:

I have reviewed your letter of June 19, 1992 and would like to comment on your concerns.

1. I agree that the coordination of "State" frequencies is essential. I have added the same verbiage that you use on page 36H of the Michigan Region 21 plan to the Wisconsin plan. Enclosed is an addenda sheet that is to be added immediately before the page entitled "F.C.C. Channel Assignments".

2. While Iron County Wisconsin and Iron County Michigan are on the border, the counties are not right across the border as your letter suggests. The borders of the two counties are at least 45 miles apart. The actual separation between any mobile and a fixed site is much greater. The following is the calculated distances between the Wisconsin and Michigan sites:

	Iron County, WI	Iron County, MI	Distance (Miles)
A	45 22 42 N 86 53 59 W	46 12 12 N 88 22 02 W	84.93
B	46 12 54 N 90 07 38 W	Same as above	84.40
C	46 25 05 N 90 20 27 W	Same as above	95.62
D	46 49 38 N 90 20 27 W	Same as above	94.74

3. The calculated distance from our Door County sites to Emmet and Manistee are as follows:

	Door Co. Sites	Emmet Sites	Distance (Miles)
A	45 22 54 N 86 53 59 W	45 31 45 N 84 55 30 W	96.54
B	45 10 31 N 87 04 58 W	Same as above	107.87
C	45 00 05 N 87 13 46 W	Same as above	118.14
D	44 49 38 N 87 22 33 W	Same as above	129.14
E	44 46 09 N 87 35 44 W	Same as above	140.65

	Door Co. Sites	Manistee Sites	
A	Same as A above	44 20 31 N 86 03 33 W	82.62
B	Same as B above	Same as above	76.47
C	Same as C above	Same as above	73.47
D	Same as D above	Same as above	73.10
E	Same as E above	Same as above	81.39

4. The separation between Kewaunee County, Wisconsin and Schoolcraft, Oceana and Grand Traverse Counties, Michigan are as follows:

	Kewaunee Sites	Schoolcraft Sites	Distance (Miles)
A	44 25 54 N 87 39 12 W	46 06 52 N 86 10 40 W	136.67
B	44 34 02 N 87 36 39 W	Same as above	154.54
A	Same as A above	46 23 22 N 86 10 40 W	127.61
B	Same as B above	Same as above	145.31

	Kewaunee Sites	Oceana Sites	Distance (Miles)
A	Same as A above	43 38 37 N 86 16 40 W	87.48
B	Same as B above	Same as Above	92.00

	Kewaunee Sites	Grand Traverse	Distance (Miles)
A	Same as A above	44 38 34 N 85 34 30 W	103.67
B	Same as B above	Same as above	100.56

5. The separations between Manitowoc County, Wisconsin and Leelanau County, Michigan is as follows:

	Manitowoc Sites	Leelanau Sites	Distance (Miles)
A	44 12 43 N 87 43 13 W	44 54 24 N 85 51 10 W	103.93
B	44 02 34 N 87 50 54 W	Same as above	115.28

I appreciate you concerns on the over water paths between our two states. With the low power and 100' towers proposed in our respective plans, I feel confident that over water propagation can be minimized. I have the same concerns with your use of the co-channel assignments causing interference on our side of the Lake, but I am sure that with proper engineering and directional antennae, the problem can be minimized. I suggest that we agree to keep each other informed of any construction involving channels 605, 606, 608 and 610 in the above mentioned counties.

Sincerely,

Richard J. Shulak, P.E.
Chairman, Region 45

enclosure: Addenda Wis Plan

STATEWIDE FREQUNCY ASSIGNMENTS

Channels assigned to "Reserved for the State of Wisconsin" are to be shared and coordinated with adjacent States and Regions. These frequencies may be assigned to local agencies as needs dictate.

REGIONAL CONFORMANCE REVIEW COMMITTEE REGION 54 ILLINOIS, INDIANA, MICHIGAN AND WISCONSIN

CHAIRMAN: Clarence Peecher
Illinois State Police
531 Sangamon Ave.
Springfield, Il 62702
(217) 782-7345

SECRETARY: Anthony J. Tricoci
Illinois State Toll Highway Authority
One Authority Drive
Downers Grove, Il 60515
(708) 241-6800 Ext. 3401

Richard J. Shulak
Chairman Region 45
P.O. Box 7912
Madison, Wisconsin 53707-7912

Dear Richard:

I have received the addition to the Wisconsin Region #45 plan and will add it to my copy per your request. This additional informaton leaves no doubt as to the intent of Wisconsin's plan to fully coordinate the sharing of all channels reserved for the State of Wisconsin with adjacent states and regions.

I also thank you for the additional information concerning the mitigation of concerns with the neighboring regional plans for Michigan and Illinois.

You have resolved the issues I stated in my first letter. Accordingly, I concur with the Region #45 plan and congratulate you for your fine effort. Please do not hesitate to contact me with any future concerns.

Sincerely,

Clarence E. Peecher

Clarence E. Peecher, Chairman
SLM RCRC REGION #54

920715a.rcc

cc: Carl Guse
Donald Kottlowski
David Held
Richard DeMello
Anthony Tricoci
RCRC file

WISCONSIN REGION 45

June 10, 1992

George Snead
Chairman, Illinois Region 13
State Police Communication Bureau
531 Sangamon Ave.
Springfield, IL. 62706

Dear Mr. Snead:

Enclosed is the Wisconsin 800 Mhz plan for the 821-824/866-869 portion of the spectrum. This plan is for that portion of Wisconsin that was not part of the Southern Lake Michigan Region (Region 54). This plan was unanimously approved by a general meeting of 800 MHz participants held on May 23, 1992 at Fond du Lac, Wisconsin.

Please review this plan and respond in writing to any concerns that may adversely affect your region. We have set a cut off date of July 10, 1992 for comments. We have solicited comments from you and all adjacent regions to region 45. We intend to submit this plan to the Federal Communications Commission on July 20, 1992.

Thank you for your cooperation.

Richard J. Shulak, P.E.
Chairman Region 45
P.O. Box 7912
Madison, WI. 53707-7912
(608) 267-9799

800 MHz Region 13
Public-Safety Planning Committee

C/O: **George Sneyd, Chairman**
531 Sangamon Avenue, Springfield, Illinois 62702
Phone (217) 782-7345

July 8, 1992

Mr. Richard J. Shulak
Chairman, Region 45
P.O. Box 7912
Madison, Wisconsin 53707-7912

Dear Mr. Shulak:

The Region 13 Regional Conformance Review Committee has reviewed your regional plan. We have some concerns that some of the unassigned channels and some of the channels assigned to the State of Wisconsin pose a possible interference problem to the Region 13 area. We would like to see a provision in your plan stating that these channels could not be used within seventy-five miles of Region 13 without the written concurrence of Region 13. These FCC channels are: 757, 764, 771, 773, 795, 799, 801, 809, 819, 821, and 823. With the exception of the issuance of these channels, we have no objection to the Region 45 Plan.

If I can be of further assistance please contact me at 217/782-7345.

Sincerely,

George Sneyd

George Sneyd, Chairman
Illinois FCC Region 13

GS:vp
cc: Clarence Peecher
Stuart Marsh
Nelda Reifsteck
Gary Cochran
Lambert Fleck

800 MHz Region 13
Public-Safety Planning Committee
C/O: George Sneyd, Chairman
531 Sangamon Avenue, Springfield, Illinois 62702
Phone (217) 782-7345

July 17, 1992

Mr. Richard J. Shulak
Chairman, Region 45
P.O. Box 7912
Madison, Wisconsin 53707-7912

Dear Dick:

The inclusion of the new page to the Region 45 Plan satisfies those concerns that were expressed in my letter dated July 8, 1992. With these concerns satisfied, Region #13 does not have any additional conflicts with the Region #45 Plan. On behalf of Region #13, please accept this letter as our concurrence to the Region #45 Plan.

Sincerely,

George Sneyd, Chairman
Illinois FCC Region 13

GS:vp
cc: RCRC Members

WISCONSIN REGION 45

June 10, 1992

Donald W. Kottlowski
Chairman, Indiana Region 14
Indiana State Police Building
100 North Senate Ave.
Indianapolis, IN. 46204

Dear Donald:

Enclosed is the Wisconsin 800 Mhz plan for the 821-824/866-869 portion of the spectrum. This plan is for that portion of Wisconsin that was not part of the Southern Lake Michigan Region (Region 54). This plan was unanimously approved by a general meeting of 800 MHz participants held on May 23, 1992 at Fond du Lac, Wisconsin.

Please review this plan and respond in writing to any concerns that may adversely affect your region. We have set a cut off date of July 10, 1992 for comments. We have solicited comments from you and all adjacent regions to region 45. We intend to submit this plan to the Federal Communications Commission on July 20, 1992.

Thank you for your cooperation.

Richard J. Shulak, P.E.
Chairman Region 45
P.O. Box 7912
Madison, WI. 53707-7912
(608) 267-9799

Wisconsin Department of Transportation

Tommy G. Thompson
Governor

Charles H. Thompson
Secretary

DIVISION OF STATE PATROL
4802 Sheboygan Avenue
P.O. Box 7912
Madison, WI 53707-7912

Donald Kottlowski
Indiana State Police
8500 E. 21st Street
Indianapolis, IN, 46219

July 7, 1992

Dear Don:

I've made one change to the Wisconsin 800 Mhz plan that calls for coordination between states on the use of the Statewide frequencies. This change reflects our telephone conversation about the need for Wisconsin to add some sort of coordination language to our plan so that there would be no misunderstanding of adjacent channel assignments.

While Wisconsin does not have its statewide frequency plan completed, I understand that Indiana has made some assignments to the northern regions of Indiana. As our statewide assignments are cochannel, I'd like to be kept informed of any construction that may affect Wisconsin. I'll do the same for you.

Sincerely,

Richard J. Shulak, P.E.
Chairman, Region 45

WISCONSIN REGION 45

June 10, 1992

David H. Held
Chairman, Michigan Region 21
Michigan State Police
714 S. Harrison Road
East Lansing, MI 44823

Dear David:

Enclosed is the Wisconsin 800 Mhz plan for the 821-824/866-869 portion of the spectrum. This plan is for that portion of Wisconsin that was not part of the Southern Lake Michigan Region (Region 54). This plan was unanimously approved by a general meeting of 800 MHz participants held on May 23, 1992 at Fond du Lac, Wisconsin.

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Thank you for your cooperation.

Richard J. Shulak, P.E.
Chairman Region 45
P.O. Box 7912
Madison, WI. 53707-7912
(608) 267-9799

Michigan Public Safety
FREQUENCY ADVISORY COMMITTEE

DIRECT ALL CORRESPONDENCE TO:
David Held, Frequency Advisor
Michigan State Police
Communications Division
714 South Harrison Road
East Lansing, Michigan 48823

REPRESENTING:
Associated Public-Safety Communications Officers, Inc.
Michigan Association of Chiefs of Police
Michigan Sheriff's Association
Michigan Municipal League
Michigan State Police

June 19, 1992

Richard J. Shulak, P.E.
Chairman Region 45
P.O. Box 7912
Madison, Wisconsin 53707-7912

Dear Richard:

The Michigan Frequency Advisory Committee for Region 21 Plan have reviewed your plan for Region 45 and have the following concerns that we would like addressed before we support your plan.

1. The frequencies allocated for use by the State of Wisconsin are identical to those allocated in the Region 21 Plan for Michigan and Illinois. Michigan currently has application on the way to the FCC for some of these frequencies across the border from Wisconsin. This problem may be difficult to resolve and I can only suggest that the adjacent State agencies involved may have to be required to get adjacent state concurrence before being allowed to use these channels in the future. We suggest that your plan include a requirement that anyone applying for these channels in Region 45 must coordinate with Michigan and Illinois.

2. You have assigned channel 605 to Iron County, Wisconsin and it is already in the MI plan for Iron County, Michigan right across the border.

3. You have assigned channel 608 to Door County, Wisconsin and the MI plan has this channel in Emmet and Manistee County, Michigan right across Lake Michigan.

4. You have assigned channel 606 to Kewaunee County, Wisconsin and that is right across the lake from Schoolcraft, Oceana and Grand Traverse County, Michigan where the same channel is assigned in the MI Region 21 Plan.

5. Channel 610 is assigned to Manitowac County, Wisconsin and is already assigned in the Region 21 Plan to Leelanau County, Michigan right across Lake Michigan.

For: Richard DeMello
Chairman, Region 21 MFAC

By: David H. Held
Secretary, MFAC

DHH:kj
cc: William Folske
Larry Zabkowski

Wisconsin Department of Transportation

Tommy G. Thompson
Governor

Charles H. Thompson
Secretary

DIVISION OF STATE PATROL
4802 Sheboygan Avenue
P.O. Box 7912
Madison, WI 53707-7912

Michigan Public Safety
Frequency Advisory Committee
Mr. David Held, Frequency Advisor
714 South Harrison Road
East Lansing, MI. 48823

July 6, 1992

Dear Mr. Held:

I have reviewed your letter of June 19, 1992 and would like to comment on your concerns.

1. I agree that the coordination of "State" frequencies is essential. I have added the same verbiage that you use on page 36H of the Michigan Region 21 plan to the Wisconsin plan. Enclosed is an addenda sheet that is to be added immediately before the page entitled "F.C.C. Channel Assignments".

2. While Iron County Wisconsin and Iron County Michigan are on the border, the counties are not right across the border as your letter suggests. The borders of the two counties are at least 45 miles apart. The actual separation between any mobile and a fixed site is much greater. The following is the calculated distances between the Wisconsin and Michigan sites:

	Iron County, WI	Iron County, MI	Distance (Miles)
A	45 22 42 N 86 53 59 W	46 12 12 N 88 22 02 W	84.93
B	46 12 54 N 90 07 38 W	Same as above	84.40
C	46 25 05 N 90 20 27 W	Same as above	95.62
D	46 49 38 N 90 20 27 W	Same as above	94.74

3. The calculated distance from our Door County sites to Emmet and Manistee are as follows:

	Door Co. Sites	Emmet Sites	Distance (Miles)
A	45 22 54 N 86 53 59 W	45 31 45 N 84 55 30 W	96.54
B	45 10 31 N 87 04 58 W	Same as above	107.87
C	45 00 05 N 87 13 46 W	Same as above	118.14
D	44 49 38 N 87 22 33 W	Same as above	129.14
E	44 46 09 N 87 35 44 W	Same as above	140.65
	Door Co. Sites	**Manistee Sites**	
A	Same as A above	44 20 31 N 86 03 33 W	82.62
B	Same as B above	Same as above	76.47
C	Same as C above	Same as above	73.47
D	Same as D above	Same as above	73.10
E	Same as E above	Same as above	81.39

4. The separation between Kewaunee County, Wisconsin and Schoolcraft, Oceana and Grand Traverse Counties, Michigan are as follows:

	Kewaunee Sites	Schoolcraft Sites	Distance (Miles)
A	44 25 54 N 87 39 12 W	46 06 52 N 86 10 40 W	136.67
B	44 34 02 N 87 36 39 W	Same as above	154.54
A	Same as A above	46 23 22 N 86 10 40 W	127.61
B	Same as B above	Same as above	145.31
	Kewaunee Sites	**Oceana Sites**	**Distance (Miles)**
A	Same as A above	43 38 37 N 86 16 40 W	87.48
B	Same as B above	Same as Above	92.00

	Kewaunee Sites	Grand Traverse	Distance (Miles)
A	Same as A above	44 38 34 N 85 34 30 W	103.67
B	Same as B above	Same as above	100.56

5. The separations between Manitowoc County, Wisconsin and Leelanau County, Michigan is as follows:

	Manitowoc Sites	Leelanau Sites	Distance (Miles)
A	44 12 43 N 87 43 13 W	44 54 24 N 85 51 10 W	103.93
B	44 02 34 N 87 50 54 W	Same as above	115.28

I appreciate you concerns on the over water paths between our two states. With the low power and 100' towers proposed in our respective plans, I feel confident that over water propagation can be minimized. I have the same concerns with your use of the co-channel assignments causing interference on our side of the Lake, but I am sure that with proper engineering and directional antennae, the problem can be minimized. I suggest that we agree to keep each other informed of any construction involving channels 605, 606, 608 and 610 in the above mentioned counties.

Sincerely,

Richard J. Shulak, P.E.
Chairman, Region 45

enclosure: Addenda Wis Plan

STATEWIDE FREQUNCY ASSIGNMENTS

Channels assigned to "Reserved for the State of Wisconsin" are to be shared and coordinated with adjacent States and Regions. These frequencies may be assigned to local agencies as needs dictate.

WISCONSIN REGION 45

June 10, 1992

Harry P. Hillegas
Chairman, Minnesota Region 22
A-023 Government Center
Minneapolis, MN. 55487-0007

Dear Mr. Hillegas:

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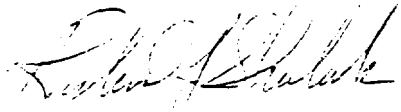
Thank you for your cooperation.



Richard J. Shulak, P.E.
Chairman Region 45
P.O. Box 7912
Madison, WI. 53707-7912
(608) 267-9799

ASSOCIATED PUBLIC-SAFETY COMMUNICATIONS OFFICERS, INC.

Minnesota Chapter

July 30, 1992

Mr. Richard J. Shulak, Chairman
Region 45 800 MHz Planning Committee
P.O. Box 7912
Madison, WI. 53707-7912

Dear Mr. Shulak:

Thank you for the opportunity to review the proposed 800 MHz Plan for Region 45.

Considering that the "frequency packing" for your region and our adjacent Region 22 was accomplished by the CET program there should be little concern about their compatibility with each other.

As we mentioned in a phone conversation last year however we were not able to allocate as many channels in the seven (7) county Minneapolis/St. Paul metropolitan area as once desired. This metropolitan area has a population in excess of 2,250,000 which is 52 % of the state's total population, however its allocation of channels is in competition with some of your relatively less populated western counties such as St. Croix, Polk, and Pierce. For example, our Washington county with a population of 146,000 and a part of this fast growing seven county metropolitan area could only be allocated 6 channels. Conversely your two counties, St. Croix and Pierce, that border our Washington county on the St. Croix river and with a combined population of only 84,000 has a total of 15 channels.

There were other factors too that limited our allocation of channels in this metropolitan area and we realize that yours alone does not totally account for the apparent disparity.

At this time we would like request that the "door be left open" for adjustments in later years should our allocation be found to be too limited and yours not totally needed.

We wish you the best in implementing your 800 Plan. You will be receiving a final draft of the plan for Region 22 sometime in August. It is now being printed for distribution to all participants.

Thanks for your consideration and cooperation.

Harry Hillegas

H. P. Hillegas, Chairman
Region 22 800 Planning Committee
A-023 Government Center
Minneapolis, MN 55487-0007

WISCONSIN REGION 45

June 10, 1992

Carl Lee Stevens
Chairman, Iowa Region 15
Wallace State Office Building
Des Moines, IA 50319

Dear Mr. Stevens:

Enclosed is the Wisconsin 800 Mhz plan for the 821-824/866-869 portion of the spectrum. This plan is for that portion of Wisconsin that was not part of the Southern Lake Michigan Region (Region 54). This plan was unanimously approved by a general meeting of 800 MHz participants held on May 23, 1992 at Fond du Lac, Wisconsin.

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Thank you for your cooperation.

Richard J. Shulak, P.E.
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(608) 267-9799

STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF PUBLIC SAFETY
PAUL H. WIECK II, COMMISSIONER

July 9, 1992

Mr. Richard J. Shulak, P.E.
Chairman, Region 45
P. O. Box 7912
Madison, WI 53707-7912

Dear Mr. Shulak:

We have reviewed your Wisconsin 800 MHz plan for the 821-824/866-869 portion of the spectrum and concur, with the following concerns noted.

Page 24 of the Public Safety Radio Communications Plan and the Associated Public Safety Communications, Inc., recommends that co-channel separation be seventy miles and adjacent channel separation be 40 miles. Special attention should be given to antenna height and power requirements during future frequency coordination involving the counties listed.

Jackson, WI (623) 62 miles from Howard (623)

Iowa, WI (643) 60 miles from Linn (643)

Crawford, WI (646) 51 miles from Linn (646)

Crawford, WI (612) 55 miles from Black Hawk (612)

Grant, WI (649) 22 miles from Winneshiek (650)

Grant, WI (605) 26 miles from Buchanan (604)

Iowa, WI (615) 21 miles from Duqueue (624)

Crawford, WI (612) 26 miles from Delaware (611)

Richland, WI (607) 61 miles from Jones (609)

Sincerely,

Gary Lee Stevens

GARY LEE STEVENS,
Director

GLS:mcc

DSP-BUREAU OF

JUL 14 1992

COMMUNICATIONS