

WISCONSIN ASSOCIATION OF REPEATERS



September 2009
Newsletter

Member: Mid-America Coordination Council
Founding Member: National Frequency Coordination Council

From the Chairman

The new renewal process seems to be coming along. On page 2 you will find a list of the second notices that Milt sent out to the Holder of Coordination and Primary Contacts who did not respond to the first mailing. We have purposefully planned the renewal timeline to be able to print this list in the fall newsletter as yet another reminder. If you know the folk on the list, give them a nudge please. Maybe some folk will notice and call their Club President or repeater owner and ask "what's up?" We do realize that in some cases, people move on (and we are not aware of it), and the folk who are left just don't get the forms. If we don't hear back by November 15th however, the coordination will be dropped. There is no third notice... this is it.

The Minnesota Repeater Council recently released their fall newsletter. In it was a proposal about the M.R.C. dropping coordination by arbitrary mileage separation and going to repeater coverage modeling. W.A.R. has been using the coverage modeling method for many years. The proposed M.R.C. policy is on their web site at: www.mrc.gen.mn.us/draft/MRC-FC-2009.pdf Their next meeting will be held Saturday Oct 31, 2009.

Our Vice Chair, Dan Bolander has been in contact with Andy, KB9ALN, who is the last known vestige of WAPR (the Wisconsin Packet radio group that was building links and keeping track of packet activity in the 80's, and 90's). With "digital" now coming back in

**Next W.A.R. Meeting:
Saturday October 17th, 2009
1:00 PM**

**Connell's II
Chippewa Valley Airport
Eau Claire, WI**

3800 Starr Ave
Eau Claire, WI 54703

repeaters (Such as the D-Star data links), W.A.R. asked as to the viability of WAPR today. Many repeater owners who want to add the "Digital" side to their machines are asking our coordinators where (what frequency) to put the link, and we can't answer that question, as W.A.R. coordinates "repeaters" not "digital internet data links". After some discussion with Andy, and at the last W.A.R. meeting, W.A.R. will start a "Digital Data Listing" to fill the void of somebody at least keeping an up to date listing of which frequencies are being used for this propose. W.A.R. will NOT offer "Coordinations" for the use of these frequencies, but simply keep track so if you want to put up a data port, we could tell you what frequencies are in use already in a specific area.

I know of no outstanding issues with the Coordinators in Michigan or Minnesota, and our Coordinators continue a good working relationship with our counterparts in Illinois. Actually, I'm not aware of any issues of any major consequence at all at this time. Getting those few left on the renewal list to respond is always fun at this time of year of course. At the last meeting Dave Karr proposed a "collaboration" of local state coordinators, to share the load

of finding space in the more crowded areas we cover (I suspect mostly the WI / Illinois border). I hope for a report and some ideas on this at the next meeting.

The last few pages of this newsletter reflect a number of proposed changes to our By Laws and Policy document. Over the last few years we have made some changes, which were voted in, and put into the document. Milt has now gone through the entire document to make sure all the changes are reflected correctly. We hope to vote to accept these changes at the meeting.

Our next meeting is set for Oct 17th, at Connell's II, at the Eau Claire airport. Hope to see you there!

Gary Bargholz, N9UUR
W.A.R. Chairman

List of Officers & Appointments

Chairman - Gary Bargholz, N9UUR
8273 N. 53rd Street, Brown Deer, WI 53223
(414) 355-6922 chairman@wi-repeaters.org

Vice-Chairman - Dan Bolander WB9TYT
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(715) 324-6701 vice-chair@wi-repeaters.org

Secretary - Mark Helmmerrmann, KF9CS
1523 E. Moonbeam Tr. Appleton, WI 54915
(920) 749-9024 secretary@wi-repeaters.org

Treasurer - Jim Sheetz, K9OQO
N974 Joey's Place. Greenville, WI 54942
(920) 757-9457 treasurer@wi-repeaters.org

Frequency Coordinator - Dave Karr, KA9FUR
S64 W24740 Susan St., Waukesha, WI 53189
(262) 513-0150 ka9fur@wi-repeaters.org

Asst. Coordinator - Milt Klingsporn, N9WSZ
1540 Forest Court, St Germain, WI 54558
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From the Assistant Coordinator

In mid-May the 2009 renewal forms were mailed. They were due back by August 15th, three months later. Only 79% of the renewal forms were returned. On September 10th thirty-nine second notice renewal forms were mailed, which involved 56 repeaters and their associated links. These renewals are due back by November 15th, two months later. All in all, you will have had eight months to review, sign and return your renewal form.

Note that there will be NO third mailing of renewal forms, no certified letters. If your renewal form is not returned (or at least postmarked) by November 15th your repeater(s) and link(s) will be automatically de-coordinated. A subsequent request for re-coordination must be made in person, or by proxy, to the Board of Directors, and members present, at the next W.A.R. meeting.

If you're concerned about your repeater's coordination, please view the listings on the W.A.R. web site. I update the on-line listings periodically (note the date at the top of the page), more often while processing the renewal letters. The Update date listed there is what is used to generate the renewal letters, so you can check on your repeater's status. In the text file listing "<" character to the right of the Update date indicates the repeaters whose renewals are "out of date".

We have over 350 repeaters and 200 links in our database, including those that are operational (see the listings) and those that are proposed, under construction or temporarily off-the-air.

You may update your records or repeater at any time. You do not need to wait for the renewal form to arrive and mark the changes on the

renewal form. The idea of lets change and/or move our repeater and worry about coordination later does not fly. Repeaters are coordinated for a specific location (latitude / longitude), antenna height, ERP and access tone. A change to any of those parameters means the repeater is no longer coordinated and a new coordination is generated.

When systems need to move, change hands, or have changes that affect its coverage area, we need to be notified before these changes are being made. In some instances even a small move might result in interference for another system. W.A.R. is also obligated to work with the surrounding states as we mutually keep each other up to date not only on new systems, but on existing systems as well.

Milt N9WSZ
Assistant Coordinator

Here is the list of repeaters that received the second renewal notice sorted alphabetically by city.

Second notice renewals were mailed to this list on September 10th, and are due back by November 15th, they will be de-coordinated on that date if the renewal is not returned.

N9GMT	442.3500	Allenton	KX2DX	146.1900	Merrill
N9TEV	147.3150	Antigo	W9DHI	53.0300	Milwaukee
W9ZL	145.3300	Appleton	N9LKH	145.1300	Milwaukee
W9ZL	146.7600	Appleton	KA9WXN	145.2450	Milwaukee
W9ZL	443.6500	Appleton	KA9WXN	145.2500	Milwaukee
W9BCY	147.3150	Ashland	N9LKH	443.5500	Milwaukee
K0VSC	443.7250	Baraboo	N9GMT	443.8000	Milwaukee
N9GMT	444.5000	Baraboo	AA9JR	443.9500	Milwaukee
W9BCY	146.6100	Bayfield	W9DHI	444.8500	Milwaukee
N9GMT	444.9500	Berlin	W9LR	443.3600	New Berlin
KB9YQU	444.2000	Brookfield	KD9UU	443.6750	North Freedom
N9RNA	442.8500	Burlington	N9GMT	444.1500	North Prairie
N9GMT	443.0000	Cambridge	KB9IME	147.2400	Oshkosh
NK9G	224.9000	Cudahy	W9RCG	443.1250	Pewaukee
K9ABC	146.8200	Delafield	WB9RQR	147.3300	Port Washington
K9ABC	444.1250	Delafield	WB9RQR	443.5250	Port Washington
N9GMT	444.6000	Fond du Lac	KB9KIR	224.6600	Portage
N9DTT	224.4200	Fort Atkinson	K9EC	224.8000	Racine
AC9AR	147.0300	Friendship	NS9Q	145.1500	Rhineland
W9CQ	442.8750	Germantown	WD0HWT	link	Roberts
N9DKH	147.0750	Green Bay	WB9KPG	145.3500	Rubicon
W9JOL	443.4250	Hales Corners	AB9FT	147.2550	Sheboygan
N9OBG	146.8950	Hilbert	W9AEA	147.1350	Spooner
N9NLU	146.7900	Kewaskum	W9AEA	444.8000	Spooner
N9NLU	444.2750	Kewaskum	WB9QFW	146.9850	Stevens Point
NOEXE	444.7500	La Crosse	N9OIG	146.7450	Union Grove
N9KAN	53.0700	Madison	N9OIG	442.2500	Union Grove
N9KAN	443.4000	Madison	W9BCC	145.4100	Unity
AA9US	147.1800	Marshfield			

**Wisconsin Association of Repeaters
April 18, 2009
Meeting Minutes**

The meeting was called to order at 1:10 p.m. by the Chairman, Gary Bargholz. It was held at the Outagamie County Red Cross in Appleton, Wisconsin.

Introduction of members and guests:

KF9CS	Mark Heimmermann
N9BDR	Ralph Pellegrini
N9GMT	Bob Schmidt
KA9FUR	Dave Karr
KC9HYC	Justin Kurscheidt
N9RJZ	John Ensley
N9VSV	Jeananne Bargholz
N9UUR	Gary Bargholz
WB9TYT	Dan Bolander
N9WSZ	Milt Klingsporn
KB9RCG	Margie Klingsporn
K9JAC	J. Hughes
W9RGG	Robert Guenther
K9ZZZ	Greg Wolfe
KB9KBK	James Westover
N9ASA	Dan Workeraour
W9BLS	Barry Sprifke
KA9WXN	David Schank
N9LKH	Patrick Riordan

Secretary's Report:

There are a few corrections to the previous minutes. The first correction is one gentleman was miss-labeled and another was missed. The corrected listing is:

K9QLP	Jim Albrinck
W9DHI	Gregg Lengling

The second correction is for the amateur who made the motion to accept the treasurer's report. The motion to accept the treasurer's report was made by K9QLP, Jim Albrinck. The minutes, with corrections, were approved by unanimous consent.

Treasurer's Report:

Jim is currently on a cruise in Holland and provided Gary with the financial details. WAR received a check of \$301.00 from ARRL for the 2009 Repeater Directory. Gary reported that all the bills for the newsletter have been paid. As of 4/6/2009 WAR's balance is \$5337.80. The treasurer's report was approved in absence by unanimous consent.

Communications:

The newsletter was published by the old printer. The printer did not close but moved to a new location. The previous landlord kept taking down his moved sign. The old printer has plenty of WAR's envelopes in stock.

Frequency Coordinator:

With the recent de-coordinations WAR decided to rethink the re-coordination process. The initial mailing will be sent to the Primary Contact in the second quarter of the year. If no response, a second notice is sent to the Primary Contact and the Holder of Coordination during the third quarter. The Sept./Oct. newsletter will list the repeaters that are in danger of decoordination. If no response by November 15 the repeater and links are de-coordinated. Any subsequent recoordination requests must be made in person or by proxy to the Board of Directors and members present at the next WAR meeting. Milt has outlined 5 pages of changes for the policy document. Gary proposed we go ahead with the changes published in the last newsletter. Then, Gary will review Milt's proposed changes and publish them in the next newsletter for review. WAR will vote on the proposed changes at the fall meeting.

Re-coordination Requests:

The following de-coordinated systems were present at the WAR meeting and requested re-coordination:

Callsign	Frequency	Motion	Second
N9WYQ	146.6250	WB9TYT	N9VSV
N9WYQ	444.7250	WB9TYT	N9VSV
N9KAN	53.0700	N9UUR	K9JAC
N9KAN	443.4000	N9UUR	K9JAC
KA9WXN	145.2450	N9UUR	W9RCG
KA9WXN	145.2500	N9UUR	W9RCG
KC9LKZ	442.46875	N9UUR	K9JAC
KC9LKZ	1290.0500	N9UUR	K9JAC
N9LKH	145.1300	N9UUR	K9ZZZ
W9RCG	443.1250	N9UUR	K9JAC

All were approved by unanimous consent of the members present.

Gary encourages all the late renewals and all the membership, "Please submit your renewals on time. To avoid this situation in the future."

Other/New Business:

Digital Systems:

Dan, WB9TYT, contacted Andy, KB9ALN, on the status of WAPR. Andy IS WAPR and its concern is specific to packet coordination. Andy is open to WAR's involvement. WAR needs to address the new digital systems and provide users with frequency suggestions. To this end, Dave made the motion "WAR will provide a digital listing for, non-repeater digital stations." This is not a coordination service just a listing service. WAR still only coordinates repeater systems. Dan, WB9TYT, seconded the motion. The motion was approved by unanimous consent.

Dave discussed forming a collaboration with the neighboring frequency coordinators. The collaboration will help frequency coordinators share the load on coordinating systems across state boundaries. Gary asked Dave to discuss this idea with the other coordinators and bring back some ideas, and possibly details of the procedures.

Nomination and Election of Officers:

Dan, WB9TYT, nominated Gary Bargholz, N9UUR, for the position of Chairman. The nominations were closed. Gary received a unanimous vote.
 Gary, N9UUR, nominated Dan Bolander, WB9TYT, for the position of Vice Chairman. The nominations were closed. Dan received a unanimous vote.
 Dan, WB9TYT, nominated Mark Heimmermann, KF9CS, for the position of Secretary. The nominations were closed. Mark received a unanimous vote.
 Gary, N9UUR, nominated Jim Sheetz, K9OQO, for the position of Treasurer. The nominations were closed. Jim received a unanimous vote.

Appointments:

Gary appointed Dave Karr, KA9FUR, as the Frequency Coordinator.
 Gary appointed Milt Klingsporn, N9WSZ, as the Assistant Frequency Coordinator.
 Gary appointed himself as newsletter editor and web master. If anyone is interested in taking over the newsletter or web please contact Gary.

The next WAR meeting will be near Eau Claire, WI on October 17. Mark, KF9CS, made a motion to the close the meeting.

Gary, N9UUR, closed the meeting.
 We adjourned at 3:12 p.m.

Respectfully submitted,
 Mark Heimmermann (KF9CS)
 Wisconsin Association of Repeaters, Secretary

Here is the listing of proposed changes to the W.A.R. Policies and By Laws.

~~A line with strike through is to be deleted.~~

A line underlined is to be added.

V. Frequency assignments: General

A. Holder of Coordination

The person or entity that owns, and or built the physical repeater system is considered the holder of record of a frequency coordination. W.A.R. recognizes that many systems are owned by an entity (a club for example), and not an individual. In these situations the Trustee may be an appointment, or simply an honorary position. All requests for coordination or for changes in listing, callsign, sponsorship or trustee information for a repeater or link must be submitted in writing over the signature of the Holder of Coordination. The frequency coordination document and renewal form (see paragraph V. G) from W.A.R. will be sent to the Primary Contact. All other notices and mailings from W.A.R. will be sent to the Holder of Coordination ~~by mail~~. No frequency coordination may be made without all information being fully documented and submitted to the Repeater Frequency Coordinator for final approval.

B. Participation in coordination activities by repeater Holder of Coordination

The Holder of Coordination and/or Primary Contact of a proposed repeater is expected to actively participate with the Repeater Frequency Coordinator in the task of surveying the frequencies and coverage areas of existing systems in his area in order to select an appropriate frequency for the new repeater.

C. Data needed for Frequency Coordination

To comply with MACC standards, and properly perform our duty as Wisconsin Frequency Coordinator, W.A.R. must maintain a database ~~if~~ of information which contains, at minimum, the following items: system amateur radio callsign, input and output frequencies, location (coordinates within ~~1/40 minute~~ 1 second), systems sponsor, user access methods, PL, communication mode, output power, effective radiated power, antenna height above ground level, above sea level and above average terrain, link and control frequencies, antenna patterns, name of the Holder of Coordination, callsign, address, telephone number, e-mail address and if known the date of the original coordination, Trustee's Primary Contact's name, callsign, address, telephone number and e-mail address if different from the Holder of the Coordination.

Forms for making an application for a new coordination, ~~or renewals~~ are available from the Frequency Coordinator, Assistant Frequency Coordinator or from the W.A.R. ~~www web~~ site: <http://www.wi-repeaters.org/forms.htm>

D. In writing policy

Only frequency assignments and frequency coordination's confirmed in writing from the Frequency Coordinator or Assistant Frequency Coordinator shall be considered official and binding.

E. Conditions of assignment

~~If the~~ The use of CTCSS, tone burst, whistle-up, Touch-tone, or other means of effecting limited access is specified as a condition of assignment, ~~such as in the case of a short spaced situation, this limited access method~~ MUST BE USED, and operators of repeater stations on assignments sharing the frequency pair or on assignments adjacent to the affected system shall consider the use of such equipment as being implemented and protection afforded as such.

G. Coordination assignment time limit for existing stations and continuation of frequency assignment. Frequency coordination assignments for all repeater, auxiliary and control stations shall be valid for a period of one year from the date of issuance. Renewals of frequency coordination are not automatic and renewal will be extended only upon return of the Annual **Update Renewal** Form to the **Repeater Assistant** Frequency Coordinator. This renewal is done by returning the yearly renewal form sent in the second quarter of the calendar year by W.A.R. to each repeater, auxiliary link or control station ~~Holder of Coordination~~**Primary Contact. This renewal form is due back by August 15th. Those that do not return the renewal form for more than one year will not have their system listed in the W.A.R. Repeater listing, or the ARRL Repeater Directory, and will be considered for repeater system de-coordination. It is the sole responsibility of the Holder of Coordination to keep W.A.R. informed of their current system information as well as the Primary Contact's information, and a correct mailing address.**

A second ~~request for confirmation of information on a repeater system renewal form~~ will be sent to the Holder of Coordination and Primary Contact of delinquent repeater operators in the third quarter of the calendar year. If no reply is received ~~within sixty (60) days,~~by November 15th the Frequency Coordinator is authorized to de-coordinate a repeater. Requests for re-coordination must be made in person or by proxy at the next W.A.R. meeting to the Board of Directors and the members present. The members present must vote on the proposed re-instatement.

J. Changes made to a frequency coordinated station
Any frequency assignment, i.e., coordination, will immediately become invalid if the station makes significant changes. Such changes require a new application for coordination. The term significant change is defined in the definitions section of this policy. Please contact the Frequency Coordinator for additional information.

~~When a repeater station changes hands, is relocated, or if the Effective Radiated Power (ERP) is increased beyond the aforementioned limits, the frequency coordination is invalid. Frequency coordination is based on information provided on the original coordination application. Any such change is subject to re-coordination. Please contact the Frequency Coordinator for additional information.~~

N. Transfer of repeater frequency pairs
Repeater pairs are transferable, but all changes must be filed with the Frequency Coordinator, who will determine if the changes are acceptable for re-coordination. In situations where one sponsor sells his repeater system to another sponsor, the same frequency may be re-coordinated to the new sponsor. The current Holder of Coordination should relinquish the frequency in writing to the Frequency Coordinator. The new sponsor must make a full application in writing to the Frequency Coordinator for re-coordination.

The current Holder of Coordination must complete and send in the Relinquish Holder of Coordination Form. If no significant changes are made to the repeater, the new Holder of Coordination must complete and send in the New Holder of Coordination Application Form. If significant changes are made the new Holder of Coordination must complete and send in a Coordination Application Form. Forms are available from the W.A.R. web site www.wi-repeaters.org/forms.htm

VI. Repeater De-Coordination

3. To be considered an active repeater, the Primary Contact or Holder of Coordination must renew the repeater frequency coordination annually. ~~Usually~~ This renewal is done by returning the renewal information form sent out by W.A.R. annually to the Primary Contact and Holder of Coordination of record for each repeater, auxiliary link or control station. Repeater ~~Coordination~~ Holders of Coordination that do not reply to this annual request renewal for over one year, will have their systems considered as in-active and may will be subject to de-coordination.

4. If in the course of research, an allocation is determined to be in-active and the **Coordination** Holder of **Coordination of** record cannot be located by registered mail, the coordination will be dropped by the Frequency Coordinator, and the frequency returned to the pool.

XIII. Additional Policies and General Guidelines

C. Any repeater operator that has no contact with W.A.R. for over **two one** year can expect de-coordination of their frequencies.

D. The renewal process shall be separate from the newsletter. There will be a direct mailing of renewal forms to the repeater **trustee Primary Contact (and if no response then to the** Holder of Coordination). The forms will contain W.A.R.'s latest information. This mailing will occur annually.

H. The designation of a repeater as being ARES/RACES affiliated in any W.A.R. databases or published listing must have the approval of, and be confirmed in writing by the ~~local county ARES EC or~~ State SEC.

XIV. Definitions

C. CTCSS

Continuous Tone-Coded Squelch Systems such as Private Line (PL), Channel Guard (CG), Quiet Channel (QC), etc.

H. SIGNIFICANT CHANGE

A significant change is defined as moving the station location **more than 2 miles**, a change of **Trustee-Holder of Coordination or tone access**, or increasing **antenna height and/or ERP** power **over the W.A.R. prescribed limits of radiation**.

I. ACTIVE REPEATER

An active repeater must have all of the following characteristics:

1. Available for use (turned on and conforming to W.A.R. technical standards) by the general amateur public or, in the case of a closed repeater by club members only, on its coordinated paired input and output frequencies for a total of at least 305 days per year, excepting the first **calendar** year of operation.

2. The repeater's **Primary Contact** or Holder of Coordination must have responded to the annual renewal information request mailed by the Wisconsin Association of Repeaters.

3. The repeater system must have adhered to the information provided in the coordination request form, regarding location, HAAT, ERP, type of access²², etc. All changes to the information on this form **MUST** be provided to the Repeater Frequency Coordinator within 30 days of that change, but most preferably **BEFORE** the change is made.

XVI. Appendix 2: Close Spacing of Amateur Radio Repeaters

2. Guidelines for a Close Spacing Coordination:

A. Submission of a completed W.A.R. Coordination **Form Application**

B. Submission of a completed W.A.R. ERP **Form Worksheet**

C. Submission of a completed W.A.R. HAAT **Form Worksheet**

Forms are available on the W.A.R. web site at www.wi-repeaters.org/forms.htm

D. The following minimum distances may be allowed for a Close Spaced Coordination.

3. General System Requirements for a Close Spaced Repeater:

C. The Repeater shall have a maximum ERP of **250** 100 Watts.