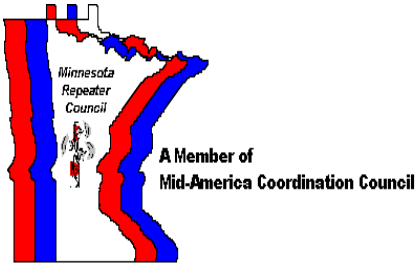


Minnesota Repeater Council



Spring 2004
Newsletter

Founding Member: National Frequency Coordination Council

MRC Officers:

Chair

Steve Glatzel, KØFHC
16200 62nd Street NE
Otsego MN 55330
sglatzel@aol.com
763-441-0985

Vice Chair

Dan Swee, NØFKM
4250 Tyler St NE
Columbia Heights MN 55421
nØfkm@amsat.org
612-363-5079

Secretary Treasurer

Jerry Dorf, NØFWG
1402 Pulaski Road
Buffalo MN 55313
jerryd@jerryd.net
763-682-2169
952-473-5819 Fax

Appointments

Chairmans Special Assistant

Keith Mobarry, WAØTXJ

Frequency Coordinator

MRC chairman & secretary are filling the position at this time

Technical Committee Chair

Brad Ornes, KAØSQO
bradd1@i axs.net

User Liaison

Thomas Gagnon KBØDCO
805 20th Street East
Glencoe MN 55336
320-864-4274
kbØdco@arrl.net

The Fall MRC
Meeting will be held

Saturday
April 17, 2004
at
Eagles Club
Litchfield, MN

389 County Road 34 South
Litchfield MN 55355

1:00 PM Registration & Lunch
2:00 PM Call to order

From the Minneapolis metro area take I-394 or US Highway 12 to the East side of Litchfield. Turn North on County Road 34. The Eagles club is located near Cenex.

**Sloppy Joe Lunch, Pop and
Coffee will be available for a
small donation.**

It is important that if your not going to attend the meeting to give your proxy vote to someone who will be attending. This can be a club member.

Jerry Dorf, NØFWG

SHARED NON-PROTECTED

We will be looking at the SNP frequencies and standards by which they are to be used, we will also develop new policies for them. SNP are repeaters, that means that they need coordination just as any other repeaters. The main difference is that the MRC does not recognize mileage separation between them. The MRC keeps track of "PL" tones used by each repeater to keep from duplication. There are 4 UHF and 1 VHF frequency's set aside for SNP, we will be looking at guidelines for their proper use, please bring some ideas along with you. Some ideas might be power, height, stand alone system, should a person who has a coordinated repeater also have a SNP repeater or should they be reserved for someone who is learning about repeaters.

The 2004-2005 repeater directory will not include more than 30 repeaters that didn't send the MRC their yearly updates. If this happens to be you, find a mirror and look at the person responsible for this happening. At the spring meeting, dinner will be provided as it has been in the past, their will be a donation jar and the MRC will be making up the difference. The board of the MRC hopes to see you in April.

Steve Glatzel, KØFHC

Secretary - Treasurers Notes:

The MRC membership database has been quiet with very few ongoing changes over the last 6 months.

If you look at the envelope this newsletter came in, you will find your expiration date. This is the year you are paid to the end of the listed year. So 2004 is paid up till Dec 31, 2004

Membership types listed on the envelope

REG	Regular member	ASC	Associate member
NL	Newsletter only	SPL	Special
ZZ	Unkown	RPE	Reg Pending.

If you have any questions, or there is a discrepancy in your information please ask before coming to the meeting.

If you would like to renew your membership, please fill out the membership form on the back page and mail it in the enclosed envelope.

Proxy forms need to be signed and mailed in, or faxed to 952-473-5819 or hand carried to the meeting.

Getting all the basics like dues, proxies, etc done in advance helps get the registration done so the meeting can began on time!

Contacting the Secretary!

I have a full time job, so if you wish to contact me by phone, it is best to try 6-9PM in the evenings except Wednesday or on weekends.

Sending registered mail is going to delay my receiving the correspondence, this also requires my leaving work early or going to the post office on a Saturday morning.

I normally read and respond to email on a daily basis, this is preferred if I need to research something.

Jerry Dorf, N0FWG

Shared non-protected repeater proposed policy thoughts.

Restrictions on repeater systems placed on the Shared Non-protected pairs to promote sharing.

Technical considerations

1. ERP shall be limited to no more than 100 watts.
2. System height shall be limited to no more than 400 feet AGL.
3. System shall use a CW or voice identifier connected directly to the transmitter.
4. Station Identifiers shall not beacon at any regular interval or identify more than once after final transmission has occurred .
5. System shall use CTCSS, DCS or other access restrictions on both decode and encode.

Operational considerations

All repeaters placed on the SNP frequencies shall coordinate access tones, methods and locations with the MRC frequency coordinator.

In order to allow the mutual sharing of the frequency, the following restrictions shall apply.

- A) Users of SNP systems shall monitor the frequency for activity from other systems that may be in operation in the geographic area. A guard receiver may be used on the repeater output channel at the repeater site to prevent the repeater from interfering with other systems.
- B) Repeater trustees must recognize other systems on the frequency, thus sharing the frequency.
- C) Linking by RF, Internet or other means shall be permitted only in areas where only 1 (one) SNP repeater system is in operation in a 60 mile radius. If a second system is placed within the geographic area one or more of the following conditions will be imposed by the coordinator based on information presented.
 1. Trustees may mutually agree to allow linking in writing to the coordinator.
 2. Anti PL on repeater receiver or other means to reduce interference may be required.
 3. Linking on the original system must be discontinued.
 4. Linking system must monitor the output channel for activity before transmitting.
 5. System may be assigned a regular repeater pair if available.

Coordination Report

Since the last meeting the MRC has been active with the following:

Updates

Steve Glatzel took on the thankless job of entering all the update requests that were received from the Fall 2003 mailing.

There are a number of records that have not updated within the last 2 years that need to be updated. Matt, N0YNT has volunteered to track down the respective systems to get them resolved. First phase will be the older than year 2000 records. Once this is completed then we will move on to the 2000-2002 records. It is my opinion that some of the repeaters are sponsored by clubs that have changed trustee's and simply do not know that they need to file updates. Decoordination is a last resort, however this may be required at the Fall 2004 meeting. I have tracked down some operators through multiple callsign changes and moves around the country!

Database

We have started using CTK for coordination, this is allowing for rapid turnaround on new coordinations. Special thanks to Paul, WA0WRG for working with CTK to develop a import from the MAC database that Steve Glatzel was using for the updates.

We have been able to directly exchange data with Wisconsin and Iowa with no difficulty.

New coordinations

The following systems have been coordinated in the last 6 months:

BRAINERD	W0UJ	52.110	53.110
LITCHFIELD	KC0CAP	448.800	443.800
NISSWA	W0UJ	448.925	443.925
PAYNESVILLE	K0OS	147.675	147.075
PLYMOUTH	KA0KMJ	448.000	443.000

The MRC has denied one request from W0EAS for coordination of the 146.745 Rochester repeater that is currently operating uncoordinated at this time. This was based on a complaint from the first adjacent repeater due to being less than the 50 mile policy.

Currently there are 2 formal requests pending comments from surrounding states. Applications are in process for 2 more, one that will require interaction with Canada.

Wisconsin has been active with new requests. Some issues include: Their first adjacent separation policy is 40 miles while the MRC policy is 50 miles. One WI repeater is now within 50 miles of a MRC coordinated repeater, the respective trustee was notified. They are also requesting non conflicting CTCSS tones, and in some cases full CTCSS on new systems.

73's, Jerry Dorf, N0FWG

The following systems have not returned a update in the last 2 years!

Location	Call	Input	Output	Name	Last Updated	Status
APPLE VALLEY	N0DAI	222.400	224.000	RUSS PRINCE	12/15/1997	OTA
BLAINE	N0KMR	144.630	Link	RONALD REITER	2/9/1991	OTA
BLOOMINGTON	N0BUA	222.600	224.200	DOTTIE GILKESON	12/15/1997	PROP
BLOOMINGTON	KA0GXL	223.100	224.700	CHRIS GANNON	12/15/1997	PROP
DULUTH	W0GKP	449.100	444.100	JERRY FREDERICK	10/21/1995	PROP
DULUTH	W0GKP	146.340	146.940	JERRY FREDEREICK	10/21/1995	OTA
DULUTH	KA0JZV	29.580	29.680	RANDY WABIK	12/3/1995	OTA
DULUTH	N0BNG	449.700	444.700	JERRY FREDERICK	4/8/1995	OTA
GRAND RAPIDS	WB0SLI	147.855	147.255	JACK VIPOND	6/4/1995	PROP
LOMAN	WJ0Y	146.070	146.670	BRUCE CHRISTOPHERSON	1/6/1996	OTA
LOMAN	WD0GTM	147.945	147.345	DENNIS MONKMAN	12/10/1995	OTA
LONG PRAIRIE	N9DHW	146.055	146.665	JOHN MOORE	3/11/1998	PROP
MINNEAPOLIS	N0GYG	449.775	444.775	HOWARD ATLAS	12/4/1995	OTA
MOOSE LAKE	N0BNG	146.400	147.000	JERRY FREDERICK	3/9/1986	OTA
OWATONNA	WB0VAJ	147.705	147.105	KAY WEGNER	12/22/2001	OTA
PARK RAPIDS	K0GUV	147.900	147.300	ED DE LAHUNT	12/22/2001	OTA
PROCTOR	KA0JZV	448.150	443.150	RANDY WABIK	12/11/1996	OTA
SILVER BAY	AA0WD	146.310	146.910	CLETUS MAKOWSKI	12/22/2001	OTA
WEST ST PAUL	N0ORK	1253.250	1277.250	DANIEL MCMILLEN	3/25/1995	OTA
WORTHINGTON	WA0LUT	146.070	146.670	DONALD ERICKSON	12/22/2001	OTA

Minutes of the Minnesota Repeater Council

Spring meeting held On October 25, 2003
North St. Paul Community Center

Call to order by chairman Steve Glatzel, K0FHC at 2:30

Arrangements for the location made by Jerry Dorf, N0FWG (MRC)

Introduction of officers made.

Quorum was met with 42 members present out of 88 members in good standing, 18 non-metro.

Chairman would like to thank a repeater group for taking a repeater off the air that was causing interference to other UHF systems. This was the responsible thing to do.

Secretary & Treasurer's report: Jerry Dorf N0FWG

Reports presented to membership in the newsletter.
A motion was made to accept, seconded and passed.

Frequency coordinator: Steve Glatzel

The MRC board has taken over the position of coordinator. We currently are in the process of updating records and getting things sorted out. Once this is completed we will be moving towards using software for coordination's, this is the reason why we need correct lat/lon locations for repeaters and links. On Monday Oct 20, approximately 430 update requests to 180 trustee's where mailed out. As of Friday, 25 have been returned with updates and the post office has returned 9 for incorrect addresses. Updated addresses have been found for all of them. In the fall newsletter approximately 50-75 repeaters have not returned any updates for the last several years. They are subject to de-coordination; most have not returned updates since the mid 1990's. Matt Genelin, N0YNT will be assisting with tracking down trustee's that do not return an update. On the web page, there is "work in progress" coordination form and a instruction sheet is in the works. Also there will be a ERP and HAAT worksheet coming in the future. Jerry Dorf found a older document that has CTCSS (PL) plan for the different regions, this form will be placed on the web page. Currently there is no waiting list for frequencies. There are some pending coordination requests that will be filled

Technical Committee: No issues at this time.

New Members:

Jerry Frederick, N0BNG Mary L Nystrom, KB0SVG Paul Holm, KC0HST Kelly Shadrick, W0RK

Upgrades:

Keith Mobary, WA0TXJ to Regular Wallace Erickson, K0WE to Associate

Motion was made to accept was made and seconded to accept all the members. Motion passed.

Old Business:

Tax liability, it appears that at this time we do not need to file any tax returns. Keith Mobary will research further.

New Business:

Coordinator position, Board is filling the position. No objections where heard.
Chairs special position, Keith Mobary is developing a filing system for the coordination records.
Matt Genelin, N0YNT has been appointed to assist in coordination research on nonresponsive repeater trustee's..

Coordinators tool kit: Jerry Dorf, N0FWG and Milt Klingsporn, N9WSZ (Wisconsin Association of Repeaters)
A presentation on the operation of Coordinators Tool Kit (CTK) a software program that was written an supported by Dave Karr of WAR to assist in coordination duties. A lengthy Q& A session on sharing of data between coordinators and what is considered public records and how it will be shared was made. A public domain terrain mapping and prorogation study program called Radio Mobile is supported. HAAT is available in booth programs with different data!

Reimbursement:

Jerry Dorf, N0FWG attended Dayton Hamvention 2003 and represented the MRC at the NFCC forum. Estimated expenses are \$180, Motion was made to approve the re-imbursement. Motion passed, with a detailed accounting to be made in the next newsletter,

Roger Launence, Made a motion to recognize Paul Emeott for his years of service at coordinator.

Greg Kitchak, N0GEF was going to make a motion that the MRC purchase a computer for keeping records and coordination software. No action was taken. 2nd motion was that the MRC no longer purchase food for the meetings. Discussion on income and expenses was made.

Spring Meeting: Non- Metro location

Locations considered: Faimont, Duluth, Buffalo, Litchfield, St. Cloud. Litchfield will be researched by the Crow River Club, and will report back to the board.

Election of Officers:

Floor was opened for nominations, none where heard. All current officers are willing to serve another term. A motion was made to accept the current board by acclimation. Motion passed

Meeting Adjourned at 3:45 pm

Jerry Dorf, N0FWG
Secretary Treasurer
Minnesota Repeater Council, Inc

Hamvention 2003 Expenses, paid to Jerry Dorf N0FWG

Date	To:	Discription	Amount
15-Mar	Dayton Hamvention	Ticket	\$18.00
12-May	"Interstate Citgo Deforest, WI"	Gas 9.9 Gallons	\$14.83
12-May	BP Elkhart IN	Gas 8.2 Gallons	\$11.96
15-May	Pilot Travel I75&Rt 30	Gas 9.1 Gallons	\$12.23
18-May	Pilot Travel Covington IN	Gas 7.3 Gallons	\$9.99
18-May	"Carls Shell, Edgerton WI"	Gas 8.4 Gallons	\$12.97
18-May	"Super America, Plymouth MN"	Gas 8.2 Gallons	\$11.78
22-May	"Econolodge Eaton, OH"	Hotel	\$65.00
Total			\$156.76

MRC Resources on the Internet

MRC Webpage <http://www.mrc.gen.mn.us>

MRC Mailing list:

This mailing list is for announcements and general discussion of MRC events, policy and operations. Currently it is un-moderated and open to all. Sign up at:

<http://mailman.qth.net/mailman/listinfo/mrc>

Don't forget to change your email program to "plain text" before you try to send anything. Messages with HTML or other fancy print will come through blank if you don't make the change. Also do not include attachments!

Use of GPS receiver for Transmitter Geographic Information:

Site Latitude/Longitude should be expressed in the following form: DD MM SS.

Where D=Degrees, M= Minutes, S Seconds

If you use your GPS make sure it is set to read in that format, along with using the NAD84 datum. Your reading will be in the following format N 45° 01' 12.5" W093° 12' 23.5". If you get a reading like 93.12345 or 93° 12.321 then your using a different format. It can be converted, however this takes time. If your not sure please indicate that and write it out *exactly* as it appears on your GPS screen! Make sure that your coordinates are located in Minnesota, on land and not somewhere in the middle of a lake. Please do not "make the numbers fit" in the form!

Minnesota Repeater Council Checking Account

Report as of March 12, 2004

Date	Type	Description	Debit	Credit	Balance	Comments
8/7/2003	2017	North St. Paul Community Center	\$115.00		\$4,321.53	Meeting Room
	2018	North St. Paul Community Center	\$0.00		\$4,321.53	Deposit \$75.00 Returned 10-15-03
	2019	Office Depot	\$26.08		\$4,295.45	Envelopes
	2020	Postmaster	\$72.00		\$4,223.45	Stamps for newsletter
	2021	Custom Business Forms	\$81.83		\$4,141.62	Print Newsletter
9/25/2003	DEP	Austin Area ARC		\$10.00	\$4,151.62	New Member Pending Fall 03
		Wallace Erickson		\$5.00	\$4,156.62	Upgrade to Asc 2003
		Art Londroche		\$20.00	\$4,176.62	Dues 2004
		Keith Mobarry		\$30.00	\$4,206.62	Upgrade Member Pend Fall 03 2006
9/30/2003	Dep	David Kellner		\$10.00	\$4,216.62	Dues 2005
		Dean L Boelter		\$10.00	\$4,226.62	Dues 2005
		Charle Esch		\$20.00	\$4,246.62	Dues 2004
10/2/2003	DEP	Roger Laurence		\$10.00	\$4,256.62	Dues 2004
		Erik Jacobson		\$20.00	\$4,276.62	Dues 2004
10/6/2003	Dep	Greg Carlson		\$30.00	\$4,306.62	Dues 2006
10/9/2003	DEP	Thomas L Svihel		\$10.00	\$4,316.62	Dues 2004
		Robert Stark, Sr		\$25.00	\$4,341.62	Membership 2005 / Newsletter
10/15/2003	Dep	Steve Csizmadia		\$10.00	\$4,351.62	Dues 2005
		Paul Holm		\$10.00	\$4,361.62	Dues 2004/Pending fall 2003
10/15/2003	2022	Office Depot	\$10.64		\$4,350.98	Windowed Envelopes
10/16/2003	2023	Office Depot	\$20.29		\$4,330.69	Envelopes/ Paper/ labels
10/18/2003	2024	Postmaster	\$94.24		\$4,236.45	Postage/ Updates & general
10/18/2003	2025	Steve Glatzel	\$106.50		\$4,129.95	Print Repeater list (Kinko's)
10/22/2003	DEP	David Schultz, Stillwater		\$10.00	\$4,139.95	Dues 2004
10/25/2003	2026	Steve Glatzel	\$416.05		\$3,723.90	Re-imb Pizza Hut/Dominos pizza
10/27/2003	Dep	Kelly Shaddrick		\$10.00	\$3,733.90	Dues 2004
		Dave Huston		\$10.00	\$3,743.90	Dues 2004
		Thomas B Carlson		\$10.00	\$3,753.90	Dues 2004
		Michael Grenier		\$20.00	\$3,773.90	Dues 2005
		Paul Germscheid		\$10.00	\$3,783.90	Dues 2004
		H R Clough		\$10.00	\$3,793.90	Dues 2004
		Margaret Jordan		\$10.00	\$3,803.90	Dues 2004
		John Swanson		\$10.00	\$3,813.90	Dues 2003
		Don Rice		\$20.00	\$3,833.90	Dues 2004
10/27/2003	2027	Jerry Dorf	\$156.76		\$3,677.14	Re-imb Dayton Hamvention/ NFCC
11/1/2003	2028	Litchfield Eagles Club	\$50.00		\$3,627.14	Deposit
11/5/2003	DEP	David Furman		\$10.00	\$3,637.14	Dues 2004
12/6/2003	DEP	Thomas Carlson/SMARTS		\$10.00	\$3,647.14	Dues 2005
	Dep	Robert Cordell/Anoka Radio Club		\$80.00	\$3,727.14	Dues 2010
12/17/2003	DEP	Richard Jackson/Dakota RACES		\$10.00	\$3,737.14	Dues 2004
2/1/2004	2029	Gordys Foods	\$22.20		\$3,714.94	Postage
2/3/2004	DEP	Randy Haglin		\$10.00	\$3,724.94	Dues 2004
2/12/2004	DEP	TCFMC / Ray Voss		\$50.00	\$3,774.94	Dues 2008
3/1/2004	DEP	MN Valley Repeater Assoc/KOFTB		\$10.00	\$3,784.94	Dues 2004
3/12/2004	Dep	Jeffery N Clarine		\$5.00	\$3,789.94	Dues 2004
	Dep	Michael Paskeuric		\$10.00	\$3,799.94	Dues 2004/pending Spring 2004

Notes:

1. New & pending memberships checks have been deposited to avoid the past "Stale Check" problems.
2. The date in the comment field shows dues paid to the end of that year.

Minnesota Repeater Council

Membership and Renewal application form

Name of organization or individual sponsor: _____

Repeater Call: _____ Frequency(s): _____

Repeater Location(s): _____

Trustee information (MRC Main Contact).

Trustee Callsign: _____ Name: _____

Phone: _____ Address: _____

Email: _____ City: _____

Other: _____ State: _____ Zip: _____

Club or alternate contact/mailing address.

Callsign: _____ Name: _____

Phone: _____ Address: _____

City: _____ State: _____ Zip: _____

Type of Application: Renewal New membership Trustee Change Database Update

- Regular Membership
Dues \$10.00 year
Organization or individual who is operating a FCC licensed Amateur Repeater station on a frequency coordinated by the MRC. Has one vote at all meetings. Receives all mailings.
- Associate Member
Dues \$ 5.00 year
Organization or individual with a active interest in constructing an Amateur Radio Repeater station or in the activities of the MRC. Can participate in the activities of the MRC but has no vote.
- Newsletter
Receives one copy of MRC newsletter for 1 year. Dues \$ 5.00
Or download for free from the MRC webpage

Signed: Repeater Trustee/Regular Member

Date: _____

Mail all Applications and dues to:
Minnesota Repeater Council
Jerry Dorf, N0FWG Secretary/Treasurer
1402 Pulaski Road
Buffalo MN 55313
763-682-2169 Voice 952-473-5819 Fax
jerryd@jerryd.net

of years Paid: _____

Total Amount: _____

Check #: _____

Name on Check: _____

Other Info: _____

Membership Approval Granted: _____ Date: _____

Dues Paid for: 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 Revised 01/04 jkd

Agenda
Minnesota Repeater Council General meeting
Spring 2004 Litchfield Eagles Club

I. Call to order 2:00 PM

- A. Welcome
- B. Establish quorum
- C. Introduction of officers and members
- D. Review Agenda

II. Reports

- A. Chairman
- B. Secretary & treasurer report, N0FWG
- C. Frequency coordinators report,
 - 1. Updates and general
 - 2. 146.745 Status
 - 3. Pending coordination's & waiting list.
- D. Technical Committee

III. Applications for membership

- 1. Richard (Skip) Jackson, KS0J Regular
- 2. Randy Haglin, N0BZZ Duluth Regular
- 3. Ray Voss, KG0DK TCFMC Regular Replacing K0HB
- 4. Michael Paskeuric, N0ODK, Forest Lake, Regular

IV. Old business.

- A. Review of tax & financial
- B. Band Plan review committee, 900 and 1.2G channel plans
- C. Other Old Business

V. New business

- A. De-coordination's and old records.
- B. Policy on SNP frequencies,
- C. Fall Elections, Nominations
- D. Other New Business

VI. Fall Meeting, Metro location

VII. Adjournment

Delegate Registration (Proxy) Form

Regular member.

Repeater Call: _____ Frequency: _____

Trustee: Call: _____ Name: _____

A regular member is an organization or individual that is the Trustee of record for an operating repeater in the MRC frequency coordination database with MRC membership dues paid in full at the start of the meeting.

Primary Delegate Call: _____ Name: _____

Alternate Delegate #1 Call: _____ Name: _____

Alternate Delegate #2 Call: _____ Name: _____

Restrict voting privileges: If you wish to be registered for purposes if counting attendance, but do not want your assigned delegate to have voting privileges, check here

Duration of Proxy: Check here to allow this proxy to be used at future MRC meetings. This proxy may be altered or revoked at any time by the regular member.

Signed: _____ Date: _____

Regular Member (Trustee)

Please mail this proxy to the Secretary at least one week prior to the meeting. Advance registration is appreciated.