

**Lakeshore Repeater Association**  
**Meeting Minutes**  
**July 31, 2018**

**I. Call to order**

- a. Dave Hegyera (WB9WNF) called to order the regular meeting of the Lakeshore Repeater Association at 1900 on July 31, 2018 at the Sturtevant Police Department, 2801 89<sup>th</sup> Street, Sturtevant, Wi., 53177

**II. Roll call**

- a. Dave Hegyera (WB9WNF) conducted a roll call of officers. The following officers were present:
  - i. President, Dave Hegyera (WB9WNF)
  - ii. Vice President, Bert Rognsvoog (K9AYL)
  - iii. Secretary, Steve Brown (KC5GWN)
  - iv. Treasurer, Dave Wyatt (NP2I)
  - v. Trustee Mike Waschbisch (N9OEZ)

**III. Secretary's Report**

- a. A motion was made by Corey Becker (KD9HCW) to accept the minutes as posted on our web page. The motion was seconded by Sean Marshke (KD9FGF), and passed by a voice vote.

**IV. Treasurer's report**

- a. Treasurer's report was read by Dave Wyatt (NP2I)
- b. Motion made by Sean Marshke (KD9FGF) to accept the report as read, subject to audit. The motion was seconded by Bert Rognsvoog (K9AYL) and was unanimously passed by a show of hands.

**V. Trustee's report:** see attachment 1

- a. Question and discussion about proposed voting for 27 and/or 442: which site?
  - i. Union Grove, Franksville and Kenosha Memorial Hospital

**VI. Technical committee's report**

**VII. New Business**

- a. Volunteer is still needed for the Audit Committee
- b. ENBEMS continue after Wednesday night nets
- c. Free-fest August 11<sup>th</sup> at the Racine Kennel Club
- d. Question and discussion about repeater coverage in our western areas

**VIII. Adjournment**

- a. Dave Hegyera (WB9WNF) entertained a motion to adjourn the meeting.
  - i. A motion was made by Mike Waschbisch (N9OEZ) and seconded by Tom Berger to adjourn the meeting. The motion was passed unanimously by voice vote.
- b. The meeting was adjourned at 1942.

## Attachment 1

### **LRA Trustee Q3 meeting Report on 7-31-2018**

1. On May 12<sup>th</sup> 2018, DMR 440 Repeater had a modem boot loop failure that resulted in replacing the main board due to loss of tuning values. It's not known why the modem board failed. Only speculation that cannot yet be confirmed at this time. The backup repeater was used for about 2 weeks when the modem board was replaced in early June. Cost was of this modem board was \$460.00 and was not charged to LRA and was absorbed by myself.

2. Power surges and/or outages do plague our main site on a continuous basis. The battery backup system does work well and keeps the repeaters online without interruption. However we had a major incident that did occur with 442 analog as a major alarm was detected causing the repeater to shut down and lock up in protection mode. The repeater logs indicate the PA Power Control detected a high RF output of almost double of the repeaters rated output power (50 watts vs. 100 watts detected caused the lockup). The lock was cleared and repeater began to function normal. Another power surge may have caused another interruption with the logics on the ID controllers. Thus why we had no courtesy beep and a default repeater ID for a few days.. Gene and I had gone out to the main site for a maintenance visit as I performed firmware updates and some minor repairs. The voice beacon message is currently disabled until we update it with a new message pointing to a new URL that was changed during this past quarter, Vicki (my wife N9WWS) had recorded our previous beacon message to help drive traffic to new amateur operators in our area to visit our website. She has been in the hospital for almost 3 weeks now after undergoing a major back surgery. It's been a difficult surgery for her and she will be happy to record a new beacon message for us once she comes home from rehabilitation. After about 3 hours of work spent at the main site on Wednesday morning of July 25<sup>th</sup> all repeaters have been fully updated and are in good working order. I do plan on a battery exercise weekend to check the performance of our battery backup system. In the event we have a emergency power event. We will take notes on network up time from the UPS and how long our batteries can run all 3 repeaters before they shut down completely with no AC Mains. This will give a real time live test to know what to expect when a long power outage occurs. I will announce this battery exercise in advance and it will most likely happen on a weekend with no expected special repeater activities or functions.

Upgrades to LRA equipment under the current lease agreement has made our current lease invalid with the equipment schedule described in the lease. During the time when Silent Key Larry WA9JMO was our President, new and better repeater model options became available and were installed. Our lease agreement was never updated to reflect the new equipment under this lease. It's imperative now that I meet with the board ASAP to create and sign a new lease to match the equipment schedule now in use for LRA. Insurance

coverage for the said equipment once the policy is renewed will also need to be updated. The equipment LRA uses under the lease agreement is for use of all 3 repeaters at only \$1 per year with an option to buy at a negotiated price or to renew at the end.

This lease allows the Association to grow without New equipment costs along with the depreciation of the equipment over time. I do have plans to also upgrade the 442 analog repeater with a high power model to double our output from 50 to 100 watts giving us about 3dBm gain overall on signal. This improves HT coverage in low lying areas. That means all 3 repeaters are robust with 100 watt transmitters and are all compatible with battery backup technology with a low cost infrastructure to maintain them. With a new lease agreement drawn we can proceed and continue growing with this latest and Greatest State of the Art Motorola 100 percent Duty Cycle repeaters.

That's all I have for Q3. I'm looking forward to work on many new Q4 projects that can begin soon with DMR receiver sites and Yes even a Analog Voting receiver site system is in now in the works for 27 and/or 442 analog repeaters. I would like to do a survey poll on which analog repeater to begin Multi receiver site voting on. 27 OR 442.

I personally would like the LRA membership to decide which one we start with first.

Mike — N9OEZ (The Trustee for LRA)

#### Radio ID 442.00

Name	Type	State	Time (sec)	Diagnostics Name	Diagnostics	Value
AC Power Alarm			Minor Detected	2018-07-01 14:57:14	N/A	0
AC Power Alarm			Minor Released	2018-07-01 14:57:19	N/A	0
AC Power Alarm			Minor Detected	2018-07-01 14:58:04	N/A	0
AC Power Alarm			Minor Released	2018-07-01 14:58:09	N/A	0
PA Power Control Alarm			Major Detected	2018-07-18 07:50:47	Output Power (dBm)	50.02
AC Power Alarm			Minor Detected	2018-07-24 18:42:50	N/A	0
AC Power Alarm			Minor Released	2018-07-24 18:42:55	N/A	0

#### Radio ID 147.27

Name	Type	State	Time (sec)	Diagnostics Name	Diagnostics	Value
AC Power Alarm			Minor Detected	2018-07-24 18:42:50	N/A	0
AC Power Alarm			Minor Released	2018-07-24 18:42:55	N/A	0