



# Michigan Amateur Radio Alliance

Post Office Box 670  
Comstock Park, MI 49321-0670



Special Meeting: Repeater update  
November 18, 2009  
Start 7:04PM

A special open club meeting was called for Wednesday November 18<sup>th</sup>, 2009 at 7:00PM. It was felt it was time for all members to be brought up to date on what has happened and what our options are in this matter.

Rob Gage N8WKN, the senior Technician investigating our repeater problems, was the guest.

Rob explained that his crew had invested about 3 or more days in attempting to discover what was wrong with our repeater and the noise that was present ( it was a crackling noise, like somebody crushing plastic wrap).

They at first, brought a service monitor out to the site, but couldn't discover what was happening. That same day, Rob brought the "cans" out to the shop for detailed probing. The very next day, they decided that a much thoroughly testing could be made if the whole repeater was in the shop. This they did. They cleaned the inside of the "Can's" and found carbon on the tuning rods. After spending a day and a half cleaning the "cans", they returned it to the site. The noise was still present. Rob then tried installing a 5<sup>th</sup> Can to help remove the transmitter's signal from the receiver. This seemed to do the trick. The problem still remains, but we can operate now.

Rob Suggested we use a 6 can duplexer instead of the 4 unit we now have. We also need to ground the site, both tower and inside. To this end, Mara will meet its obligation by grounding the tower leg and providing a ground bus inside the site. We will also install polyphasers on the AC line going to the power supply and on the Hard Line.

We then prioritized what our needs are in resolving this matter:

1. purchase a 6 can Duplexer set, and
2. ground the repeater site
3. install a repeater controller.



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The first two need to be addressed since while the problem has been mended, it hasn't been resolved till new duplexers are installed. The same can be said of the grounding. It is required!

The meeting ended at 7:42PM

Present were:

Wayne K8WMD

Mike K8OOK

Carl WA8AAT

Bill N8VWI

Rob N8WKN

Jerry W8MSK

Rich K8JX