



## EMERGENCY MEASURES RADIO GROUP



## OTTAWA ARES

Two Names - One Group - One Purpose

# General Meeting 2007-01-27

# The Year In Review

**EMRG maintained a steady  
successful pace forward last  
year, with several significant  
accomplishments and a good  
start to 2007!**

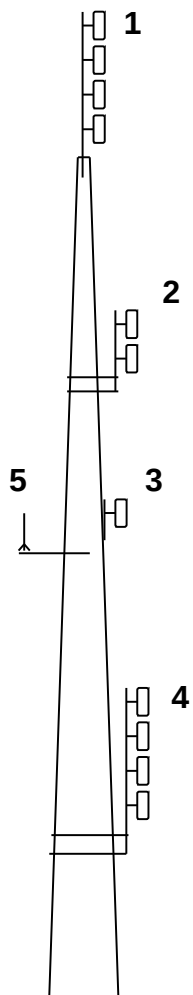
# The Year In Review

1. EMRG has a Training Coordinator – Tom Zinck VE3NFA.
2. Repeater VE3OCE VHF was upgraded.
3. EMRG received radio equipment from City Radio site.
4. Red Cross Radio system nearly complete.
5. Repeater VE3OCE UHF on the air.
6. Next phase of EMRG strategy ready to go, meeting with Community Services in February.
7. The City continues to fund EMRG with \$1000 grant.
8. Numerous projects ready for 2007.





# VE3OCE VHF New Repeater



# The New Repeater



## REPEATER

- Radio = Motorola MTR-2000
- Power = 30 W Continuous

## CONTROLLER

- Internal to Radio

## ANTENNA

- Antenna = 8db gain
- Antenna Height = 90 ft Above Ground
- Ground Height =
- Antenna Cable = Andrews 7/8" Heliax

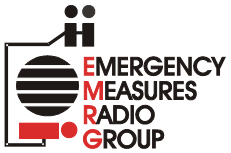
## POWER

- Onsite Generator Backup
- Wired for external Generator Backup
- Battery Backup = 100AH (6 to 7 hours operation)



# Carlington Heights Equipment





# Red Cross Radio Nearly Complete





# VE3OCE UHF Repeater

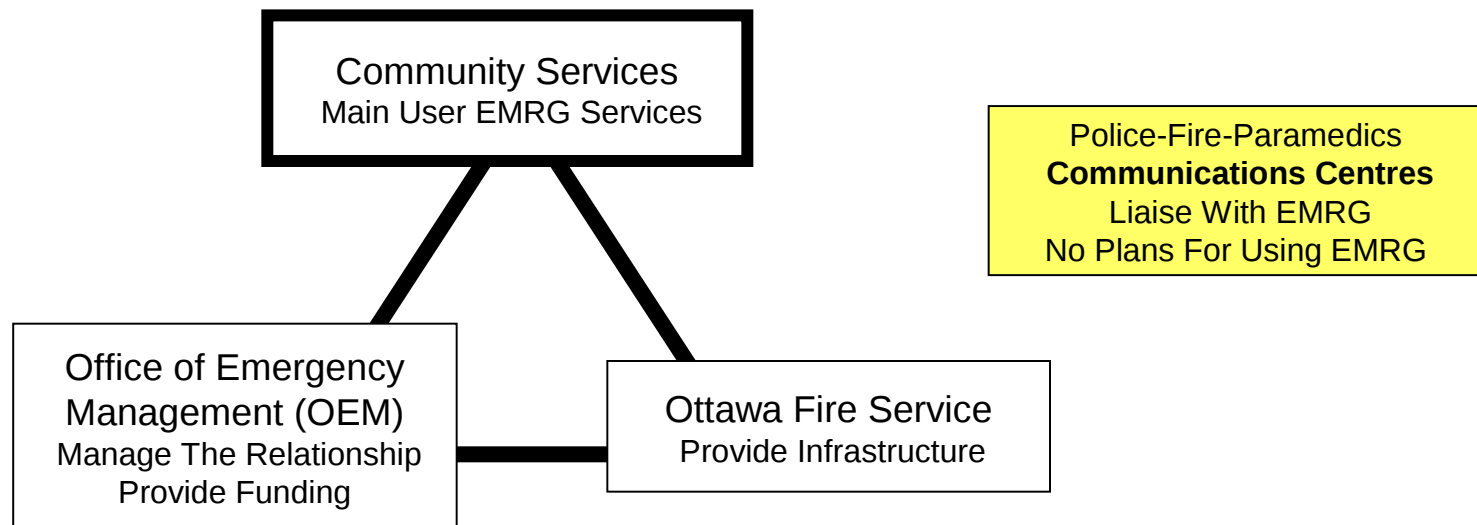


TX 443.800      RX: 448.800

# EMRG - City of Ottawa Relationships



It has taken some time to understand the role of different groups within the City of Ottawa. What we now know is that EMRG depends on 3 key relationships within the City.



# Community Services

Community Services is the Primary User of EMRG services based on past history and the fact that Community Services does not have a radio system, and normally relies on phones and cell phones for communications.

EMRG takes its role very seriously and we want to make sure that when called, we offer effective communications solutions that meet their needs.

**I will be meeting with Community Services on February 2 to discuss how to further develop the relationship, so EMRG can better understand their requirements.**

- The City of Ottawa is continuing their \$1000 yearly grant.
- The grant covers project materials and maintenance
- Outstanding activities that need a business case for funding include Antenna Work and UHF repeater equipment.



# Numerous Projects Ready For 2007

**The original EMRG 1 year plan was overly optimistic and really included 4 to 5 years worth of work. EMRG is currently midway through the plan.**

## 1. Maintain Existing Infrastructure

- Ensure existing infrastructure is complete, robust, documented and people are properly trained

## 2. Voice Communications City Wide

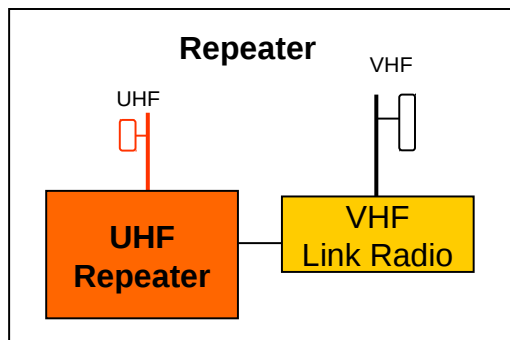
- Expand voice communications infrastructure (repeaters) to support communications between any locations, urban or rural, within the City of Ottawa
- Build an inventory of basic radio equipment (radios, power supplies, antennas & coax) to ensure sufficient equipment is available to provide consistent reliable radio communications from deployed locations

## 3. Data Communications In Urban core

- Establish a basic data communications network, to provide coverage within the urban core.

# Example Project

## UHF Repeater -VHF Link

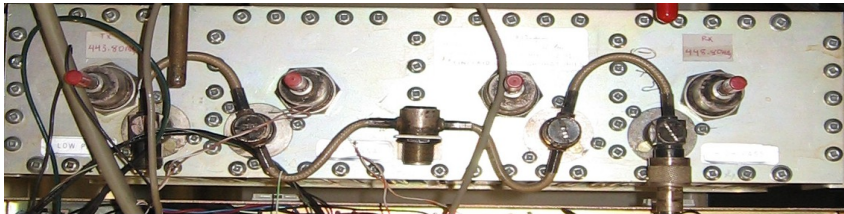


# Linking Repeater Parts

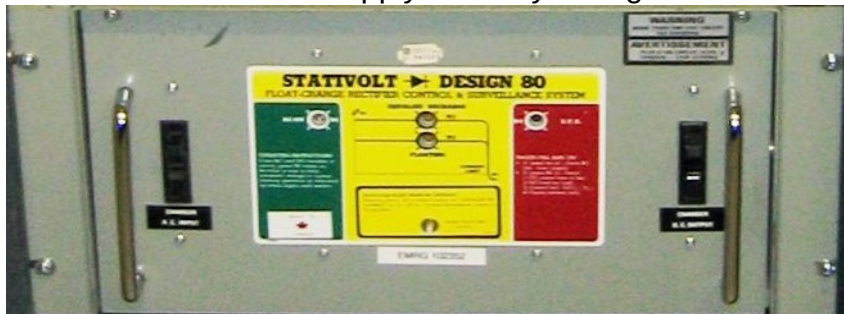
UHF Repeater



UHF Duplexer



DC Power Supply / Battery Charger



New 100 AH Battery



## Meetings

Meetings are opportunities to get people together for group think sessions, training, or exercises, with a brief EMRG information session. There are typically 3 General Meetings per year; September, January and May/June.

## Training

The key objective for this year is to continue to implement the training plan. While training has been taking place in the past, there was no overall strategy for course structure, content, development paths for members. The training strategy is to offer 5 courses per year.

## Exercises

Exercises provide an opportunity to practice skills, identify areas that need improvement and work together as a group. The exercise strategy is to complete 3 exercises per year.

## Recruitment

Recruitment is an ongoing task aimed at maintaining the membership level. The strategy is to maintain visibility within the Amateur radio community through presentations at local Amateur radio club meetings and the yearly EMRG booth at the Ottawa Amateur Radio Club fall Hamfest. This year EMRG will attempt to find someone who will specialize in recruiting suitable new members.





# EMRG Management Team Looking For New Participants



- The management team meets every 3<sup>rd</sup> Wednesday of the month to discuss EMRG issues, set objectives for EMRG, make decisions and plan general meetings.
- The objective is to have a team that represents the cross section of EMRG members, so an interested new ham can provide as much value as a old timer.
- The only requirement is an interest and willingness to participate. Bench warmers are not required.
- If you are interested, talk to Peter Gamble today, drop an email or give a call. Feel free to inquire for more information before making any commitment.

# Community Event Participation

By choice, EMRG was never involved in providing communications for community events, leaving this to the local clubs.

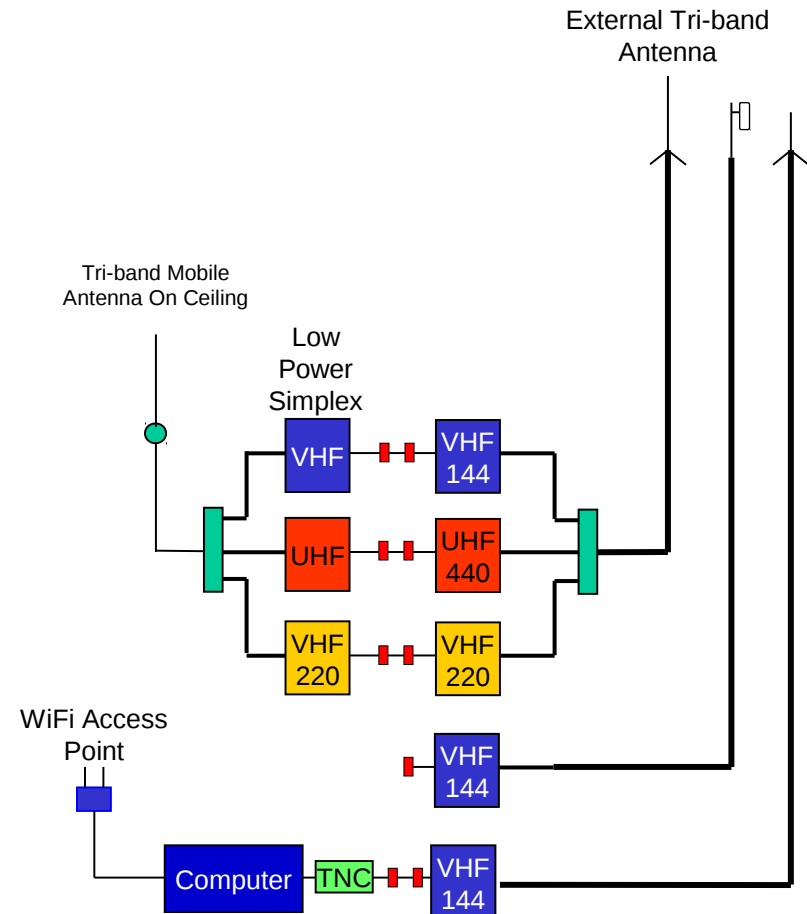
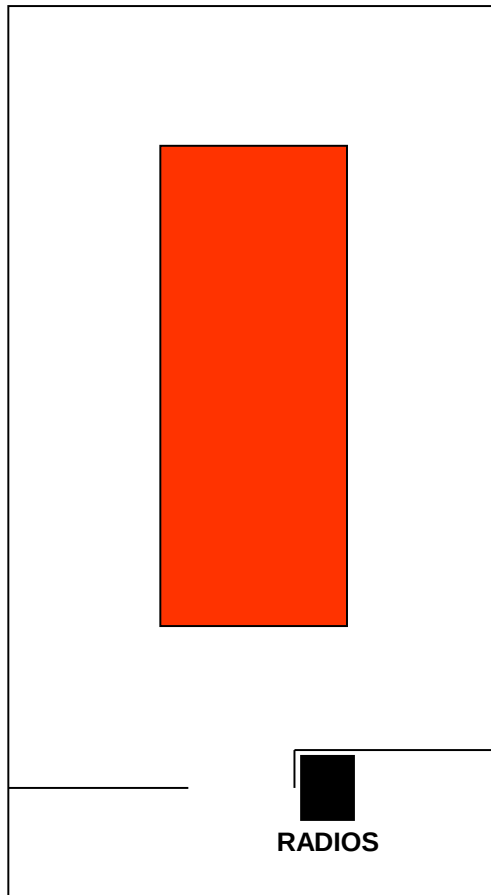
Community events are a great way to test equipment, deployment techniques and radio skills.

The EMRG management team has discussed the idea of getting involved in a yearly event, such as Tour Nortel.

The final decision is yours.

- **How many people would be prepared to support communications for a community event?**

# EOC CHANGES



The EMRG web site provides information related to Amateur radio emergency communications, specifically as it relates to the City of Ottawa.

Team Leader: Peter Gamble - VE3BQP  
(VE3BQP@RAC.CA)



# DTMF KEYPAD

EMRG needs a source for DTMF keypads. These would be installed into all permanent radio locations, as well as into the Standard User Interfaces.

1	2	3	A
4	5	6	B
7	8	9	C
*	0	#	D

We need someone to look for options, try some things out and deliver a proposal with a source for keypads and any optional wiring required to make it work on a standard radio microphone input.

# Randall Countertop

EMRG needs someone with woodworking skills and space, to prepare 2 countertops, 7'-8" x 24". The plywood can be delivered pre-cut, then the edging must be added and the surface must be finished with a durable stain and clear coat. (You may have ideas on how this should be done)

The existing countertop was used for a workshop, so the surface is not in good shape. More importantly, the plywood used for the original counter emits a foul odour, which is worse when it is humid.

The original counter was U shaped, while the new counter will have counters on each side, with the end open for easy access to the white board on the end wall.

The counters are made from  $\frac{3}{4}$  plywood, with a good finish on one side, such as maple. The counters are 24" x 7'-8", with a 2" x  $\frac{3}{4}$  " hardwood trim on all edges.