

Oakland County Amateur Radio Public Service Corp (ARPSC)  
W8OAK Repeaters – 146.900 MHz/100pl & 444.325 MHz/107.2pl  
Weekly 2 meter net 8 pm every Thursday  
Hospital Radio Net – 7:30 pm last Thursday of Month  
Packet 144.950 MHz/1200 baud, connects made with Oakxxx or  
Callsign-# to OAKBBS (W8OAK-3) with nodes at  
OAKNOD (N8NM-1 Pontiac – most coverage),  
OAKEOC (W8OAK-7 at EOC) or K8DTX-7 (White Lake)  
APRS – 144.390 MHz  
Web Site: <http://www.arpsc.com>

### **Meeting Minutes for 6 January 2016**

On 6 January 2016 at 7 pm, Jim Richards - AB8JR, Emergency Coordinator (EC) for the Oakland County ARPSC, called the meeting to order in the County Emergency Operations Center (EOC). The order of business included:

#### **(I). Report from Kevin Scheid – KD8ZVO, Homeland Security Division – Oakland County and :**

At the last meeting, members heard about the recent GAC (Grant Allocation Committee) grants. Paper work is being completed for a new UHF repeater, completion of two antenna feedline connections to the EOC, and replacement of two UHF repeater antennas.

Currently, Oakland County Homeland Security is working on an active shooter presentation for our communities and service personnel. Coming soon will be an intensive training program which will include some members in this room.

#### **(II). Report from the Emergency Coordinator (EC), Jim Richards - AB8JR:**

Our repeater status is unchanged. Currently, Kevin and Jim are requesting a date with Steve Murphy - N8NM, Radio Supervisor Oakland County Department of Information Technology. The purpose would be make rounds of the repeater receive sites for problems and possible solutions.

Jim hopes to begin a DMR radio support group in either January or more likely in February, possibly meeting monthly at the Troy Fire house where K8RDG – Dave Roberts is the Troy Fire Chief.

The Arrow J-Pole Antenna for 2 meters and 440 has arrived and the orders were passed out during the meeting. Ron Miotke – WD8MNX tested the antenna for its SWR (standing wave ratio) and found 443-450 MHz essentially flat across this band at about 1.15 to 1 and the 2 meter band no more than 1.15 to 1. For those who want to build

their own J-Pole, references exist to help. Jim will order more Arrow J-Pole Antennas if he can get a minimum of ten new orders.

Oakland County could be facing ice storms this winter. Our preparedness for this would be useful.

**(III). Presentation of Possible ARPSC Services – Damage Assessment by Jim Richards – AB8JR, EC with Kevin Scheid – KD8ZVO, Homeland Security:**

Damage assessment is a critical observation of damage incurred. Organized “systematic” reports need to be made in a very short period of time. They begin with “preliminary damage reports” followed by a “comprehensive damage assessment.” The time frame to do this is critical because the State requires completed assessments within 72 hours in order to obtain State and Federal assistance funding. These assessments first have to be done at county level which takes time.

Assessments are conducted by direct observations of what is damaged, the extent of damage, how widespread, and how badly it incapacitates the inhabitants. It is absolutely important that the reported information is accurate and sticks to facts. This means checking house by house, street by street, and actually estimating how damaged or destroyed each home is. An “assembled damage assessment” is conducted by Homeland Security. They develop the “big picture” which is then presented to the County Executive and followed by a State financial aid request.

Critical factors in damage assessment are (1) rapid gathering of data, (2) objective evaluation of the damage, (3) quantification of the data, (4) a report to the county executive - ASAP, (5) final report before the 72 hour deadline for requesting State assistance, and (6) provide a comprehensive evaluation of the event impact. This data can be placed into a county map showing specific locations which are affected – where, how severe, and pin point the type and kind of damage in different color shades with expandable detailing.

Query: Can a mobile phone photo be sent? Answer: This could be coordinated, but not through the county system. However, each photo would need the time taken and a GPS or APRS location. There can't be any ambiguity of location or time. A photo without this does not help.

GAC money could be used for ARPSC and CERT training. This is something our ARPSC can really get involved in but is still an idea. Our function would be with preliminary assessment and not with later assessments by Homeland Security. Skywarn nets could be one way to quickly find available volunteers for deployment. All this requires future county planning and would be reviewed before it could happen. Jim will keep the membership posted on how this develops.

#### **(IV). DMR Radio – A Live Programming Example by Jim Richards – W8JJR.**

This is a presentation on how to program Tytera MD-380 and could be used with other similar radios. Beware that others may want different settings to fit their needs. A social website comment mentioned that the computer MD-380 software program may not recognize new programming unless the MD-380 is plugged in. This is the secretary's interpretation and one can expect errors. The software program is divided into the following:

(1). **Basic Information.** 2016/6/07; model number – MD\_380; CPS software version – V01.30. Nothing to alter here.

(2). **General Setting.**

Left Column....

- (i). Save: Save Preamble – yes. Save Mode Receive – yes.
- (ii). Alert Tone: Disable All Tone – no. CH Free Indication Tone – yes. Talk Permit Tone – set for “Analog & Digital.” Call Alert Tone Duration – set for “continue.” (must hit button to turn off).
- (iii). Scan: Scan Digital Hang Time (milliseconds) – 7000, Scan Analog Hang Time (ms) – 7000. W8JJR states the scan for MD-380 doesn't work. Online reports mention it freezes or works slowly.
- (iv). Lone Worker: not useful, do nothing.
- (v). Power on Password: Do not use

Right Column...

- (i). Radio Name. Your choice, but Tytera suggests your call letters and handle; for example “N8SML – Murph.”
- (ii). Radio ID: This is your DMR-MARC seven digit number
- (iii). Monitor Type: Open Squelch – yes.
- (iv). VOX Sensitivity: Leave at 3
- (v). Tx Preamble Duration (ms) – 900
- (vi). Rx Low Battery Interval - 120
- (vii). PC Programming Password – don't use it
- (viii). Radio Program Password – don't use it
- (ix). Back Light Time – choice of 5, 10, 15 seconds
- (x). Set Keypad Lock Time - manual
- (xi). Diable All LED – no
  
- (xii). Talkabout. Group Call Hang Time – 7000 ms; Private – 7000 ms.
- (xiii). Intro Screen. Intro Screen – “char string.” Intro Screen Line 1 – your call letters such as n8sml. Intro Screen Line 2 – Your DMR-MARC 7 digit number.

(3). **Menu Item**

- (i). Menu Hang Time - 30
- (ii). Text Message – check yes
- (iii). Contacts – Yes to call alert, edit, manual dial, radio check, program key.
- (iv). Call Log – Yes to all but no to “Password Lock” and “Keyboard Lock”
- (v). Scan –

(4). **Buttons Definition**

- (i). Long Press Duration (ms) - 1000
- (ii). Radio Buttons – Side Button 1: Left – “High/Low Power.” Right – “Repeater Talkaround.”  
Side Button 2: Left – “Scan on/off.” Right – “Nuisance Delete.”
- (iii). One Touch Access – Your secretary missed this part.
- (iv). Number Key Quick Contact Access - Your secretary missed this part.

(5). **Text Message.** “1” is Hello; “2” is “Test Message from MD-380.”

(6). **Privacy Setting.** This is encryption. Not allowed in US amateur settings.

(7). **Digital Emergency System.** Some radios have this emergency function, but not in MD-380.

(8). **Digital Contacts.** This is where you enter your contracts. They have to be in your radio to work them. List gives you (1) number 1, 2, 3, etc, (2) contact name, (3) call type which is group call, private call or all call, (4) Call ID, (5) Call Receive Tone yes or no. For example, (1) number 418, (2) Rockbase, (3) Private Call, (4) 32126950 (the DMR-MARC number), (5) tone yes.

(9). **Digital RX Group List** – Begins with “Group List 1” and can ascend as Group List 2, etc. Image begins with Group List 1 and available contact, contact member 1, 2, 3, etc. For example, Group List 1, available contact - M15-SW2, contact member 1 - M15-SW1. Keep in mind that the MD-380 has 1000 limit on contacts.

(10). **Zone Information.** Begins with “Zone 1” and can ascend in numbered pages. Image begins with Zone 1, then available channel is to be inserted, followed by channel members – channel 1 a specific member. For example if the available channel is W8OAK AHT, channel member 1 could be SW2 Dan. If you go on Statewide 2 by hitting a nearby repeater, your call goes across the state to 23 repeaters. The DMR cannot key to a specific location, but will key up all 23 repeaters. Query: Is State wide 2 a group or private call? Answer: A group call.

(11). **Scan List.** Page begins as “Scan List 1” and has available channels to be entered, then channel members beginning the #1. At bottom there is Priority Channel 1

which gives you the selection of “Channel 1” or none. Tx Designated Channel – choice of “Channel 1” or “Last Active Channel.” Suggested signal hold time (ms) = 6000. Priority Sample times (ms) 2000.

- (12). **Channels Information** begins with “Channel 1.” Each channel requires filling out the special detailing needed. This is where “Code Plug Files” downloaded from each channel of interest can save time. Also, check with repeater website for recommended information.

Digital – Analog Data - Left Column:

- (i). Channel Mode – Digital (Analog if so used)
- (ii). Band Width – 12.5 MHz (25 MHz if analog)
- (iii). Scan List – if scan used and works, use edges of list, i.e. M15SW2SC
- (iv). Squelch - normal
- (v). Rx Rel Frequency - low
- (vi). Tx Rel Frequency - low
- (vii). TOT s = seconds – (Time Out) 60
- (viii). TOT Rekey Delays - 0
- (ix). Power – high (low if appropriate)

Right Column:

- (i). Channel Name – enter, i.e. SW2GRD
- (ii). Rx Frequency – enter, i.e. 444.2500
- (iii). Tx Frequency – enter, i.e. 449.2500
- (iv). Admit Criteria – **color code number**
- (v). Rx Only – do not use
- (vi). Lone Worker – do not use, doesn’t have this feature.
- (vii). VOX – no, unless a different radio has this.
- (viii). Allow Talkaround – yes.

Digital Data: This something you have to enter. Four things you need to know:

Frequency, time slot 1 or 2, color code, and contact name.

- (i). Private Call Confirmed - ?
- (ii). Emergency Alarm Ack - no
- (iii). Data Call Confirmed - Yes
- (iv). Compressed UDP Data Header - No
- (v). Emergency System - None
- (vi). Contact Name -
- (vii). Group List -
- (viii). Color Code – Always check for Color Code 1 through 8.
- (ix). Repeater Slot – one or two time slot. Slot 1 usually used for talkers.
- (x). Privacy – No, this is encryption.
- (xi). Privacy Number – no

Analog Data: Not covered.

(13). **DTMF Signaling.** Not covered.

**(14). General Observations For The MI5 DMR System**

Do not use the MI5 Statewide 1 Zone for general calling. SW1 is reserved for emergency communications between EOC's. The problem with using SW1 is that the system is programmed to turn off access to Worldwide (WW) and North America (NA) for a prescribed period across the entire MI5 network. This is setup to avoid a channel busy condition from radio traffic outside the emergency area. The same restriction also applies to the Event channels (1,2,3, &4). Event channels are only to be used with permission from the MI5 administrators.

**(V). AEC-Management Team Reports:**

**(1). Report from Pete Gladysz - K8PGJ, Operations**

Next week, Pete will be in the Grand Caymans working dx communications. He reminds us that the 2016 Annual Sno\*Drift Rally will be held 29-30 January at Atlanta, Michigan. Volunteers should contact Barb Steencken (head of volunteers) at [www.sno-drift.org](http://www.sno-drift.org). Pete will be running communications for the race. Ham volunteers are needed.

**(VI). Specialty Officer/Coordinator Reports:**

**(1). Report from Mark Shaw – K8ED, NTS.**

At the next meeting, Mark will make a presentation on the National Traffic System.

**(2). Report from Morrie Davidson – K8SJD, National Weather Service**

December 2015 was the warmest on record, with the highest average temperature of 47 degrees Fahrenheit. Record highs took place on the 12<sup>th</sup>, 13<sup>th</sup> and 23<sup>rd</sup> of December and 28 days were above average temperature.

Respectfully submitted,  
James R. Murphy, N8SML  
Secretary, Oakland County, ARPSC, 7 January 2016