

We are two more weeks closer to bringing DaneCom fully to life and great progress continues, as expected! This update will have more information and less pictures than previous DaneCom Outreach updates, but still a good update with great information.

### **DaneCom “Go Live”**

Progress is happening at a faster pace than previously expected. We expect DaneCom to be fully ready for use sometime between Halloween and Thanksgiving of this year. *You must have your radios programmed prior to “Go Live” or your radios will not work – as the countywide legacy radio systems currently used will be turned off.* Any local radio systems an entity currently maintains will be unaffected (unless agreements were put into place previously to vacate a particular local radio frequency when DaneCom goes on the air).

### **Radio Hardware (including antennas)**

As I’ve mentioned in the past, in order to utilize the new DaneCom P25 Trunked Radio System, you’ll need to have radios that have the necessary technology to ‘talk and listen’ on a system with this technology. If you’ve previously purchased radios for DaneCom, you’re all set as far as acquiring proper radios is concerned. If you need more radios, please reach out to your radio vendor as soon as possible.

I’ve heard that some entities may not have the proper antennas to utilize DaneCom at peak efficiency. **A ‘wideband’ VHF antenna is required to get the most out of your DaneCom radios.** This type of antenna is also needed to use the WISCOM statewide trunked radio system at peak efficiency as well. Check out the second attachment on this communication for some additional antenna information provided by General Communications. Any radio vendor can assist you in selecting or verifying the proper antennas for your radios. A proper antenna is vital to provide you with the best radio experience possible. **The wrong antenna will not provide optimum radio coverage.**

### **Radio Programming**

Obviously, your radios will need to be properly programmed in order to utilize any of the DaneCom radio resources (channels). Even if you already had your radios programmed for DaneCom previously, they will need to be programmed again to accommodate some necessary changes in system parameters. Some radio frequencies have changed as well as some DaneCom talk groups that have been updated. Radio programming is a pretty big deal. The technology within that radio you’ll be using is part computer and part radio – a rather big change than the type of radio that can be used to access our

countywide legacy radio systems. If a radio is incorrectly programmed, it may not work and certainly will not work properly. Also, it could interfere with normal operation of the radio system as a whole.

Each radio that wants to access the DaneCom P25 trunked radio system needs to have its own ID number. This number is provided and / or verified by me (Fleck) and is then shared with your radio programmers for their use in properly programming your radios. If you've previously provided me with your radio / ID information, great! But I strongly suggest you dust off that paperwork and see if you have any updates (such as additional radios or radios that may have changed their role). If you're not sure if you've already reached out to me or want to verify what you may have sent me in the past, please let me know. I'm happy to help!

### **Radio Tower Site Updates**

#### **Stoughton**



- Microwave dish (antenna) being put in place on top of the Stoughton water tower. The dish is on top of the tower, above and in between the "O" and "U" in Stoughton painted on the bowl of the tower. The dish is eight feet in diameter and is used to wirelessly communicate between this site and the City-County Building in downtown Madison. The dish pictured on the ground but later added will be part of a loop, the next 'hop' being Rockdale.

### Brigham

- Radio tower light controller to be installed in the new DaneCom radio equipment shelter this week
- Fuel tank monitor (monitors the emergency power generator's propane tank fuel level) to be installed soon
- T-1 (communication) line to be installed in July

### DeForest

- Radio Tower work (extending it's height) is complete
- Power systems are completely installed
- Antenna and cabling installation continues

### WJJO

- Electric power has been provided to the electric meter
- Radio Equipment shelter (currently staged at GenComm HQ) to be moved as early as the end of this month – I'll try to get some good pictures. Nothing like seeing a whole building get moved!

### Other sites

Work continues at other sites as well, primarily miscellaneous radio equipment adjustments – including antenna and antenna line work. There's just not as much visible change occurring at this point.

If you have any questions, please reach out to me and/or your radio programmers.

Chad Fleck, Radio System Administrator

(608)283-2912

fleck@countyofdane.com

Date: June 15, 2016

To: DaneCom & WISCOM Users

From: Gary E. Pelletier, Service Director

RE: Wideband Antennas

The new DaneCom frequencies require a wideband antenna that covers the range of 154MHz to 173MHz.

In addition, WISCOM frequencies require a wideband antenna that covers 138MHz to 160MHz.

If you are using both systems you will need antennas that cover 138MHz to 173MHz.

Below are recommendations for radio antennas that cover the above radio systems:

**MOBILE ANTENNAS:**

VHF Wideband Antenna  
No Tune, 136-174MHz  
Manufacture: PCTEL  
Chrome: MWV1365S,  
Black: PCTEL BMWV1365S

20" long with a spring and  
has a thicker whip than a standard antenna



**Madison Office**

2880 Commerce Park Drive  
Madison, WI 53719  
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Fax: (608)661-2935

**Milwaukee Office**

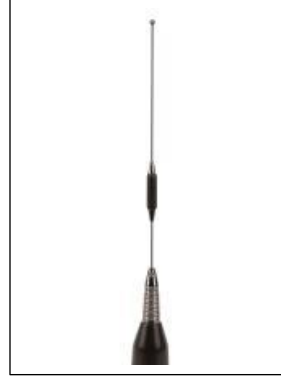
N57 W13466 Reichert Avenue  
Menomonee Falls, WI 53051  
Local: (262)439-2000  
Fax: (262)439-2009

**Eau Claire Office**

3407 E Hamilton Avenue  
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Local: (715)225-7604  
Fax: (608)661-2935



Tri-Band Mobile:  
VHF/UHF/800, No Tune,  
136-174/380-520/760-870 MHz,  
Manufacture: Laird  
Chrome: WPD136M6C-001,  
20" Tall



Tri-Band Mobile  
VHF/UHF/800, No Tune,  
136-174/380-520/698-960 MHz  
Manufacture: PCTEL  
Black: PCTWSLMR,  
22" Tall



VHF Danecom Only  
No Tune, 144-174  
Manufacture: EM Wave  
Black: EMFLX-M10008-WB  
18 7/8" Long



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700/800 MHz  
 763-869 MHz, 3db Gain  
 Manufacture: EM Wave  
 Black: EM-M11003  
 14.5" Long

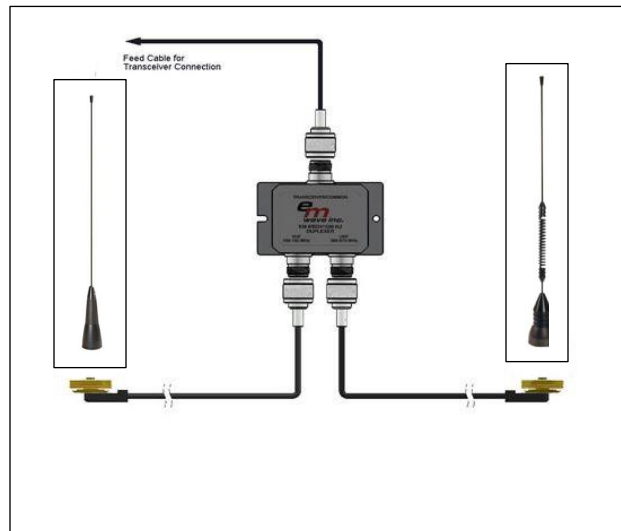


**DUAL BAND CONFIGURATION**

EM-MBD41000-NJ  
 Dual Band Duplexer  
 110-180 & 380-870 Mhz

Package Parts List:

- 1 EM-M11003 700/800 Ant.
- 1 EM-FLX-M10008-WB VHF Ant.
- 2 NMOKHFUD Coax Cables
- 1 EM-MBD4100-NJ Duplexer
- 1 195M-NMNM-12 Coax Jumper
- 2 RG58 N-Male Connectors



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**PORTABLE ANTENNAS:**

Kenwood Portable:  
KRA-28,  
VHF Portable Antenna,  
8" Long,  
140-170MHz

Harris Portable:  
MAEX-NNC5W,  
VHF Portable Antenna,  
9" Long,  
150-174MHz,  
DaneCom Primary

Harris Portable:  
MAEX-NNC1B,  
VHF Portable Antenna,  
6.2" Long, 136-160MHz,  
WISCOM Primary  
Tri-Band



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EF Johnson Portable:  
501-0017-110,  
VHF Portable Antenna,  
7.25" Long,  
136-174MHz



Motorola APX Portable:  
NAR6593,  
VHF Portable Antenna,  
7.25" Long,  
136-174MHz



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**BASE ANTENNAS:**

VHF Wideband  
VHF 138-174  
Manufacture: Telewave  
Black: ANT-150D  
34" Tall, 33" Wide



VHF Wideband  
139-168MHz,  
Manufacture: Panorama  
Black: IN1766  
22.4" Tall, 29.25" Wide



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