

Disaster Communications

FirstNet

MPSCS

AUX COM

Old School



Disclosures

- Not being paid to talk today
- Some photos and terms are not mine.
- References to providers and equipment are for example only
- Always best to get information on your specific situation from a qualified provider and vendor
- Comments are from my experiences and I do not work for anyone but MMR.



The Lynchpin is Electricity

All critical life support systems depend on power

- Communications and Data
- Public Water and Sewer
- Fuel
- Food Distribution
- Medical Services



Power Systems are not inherently resilient !!!

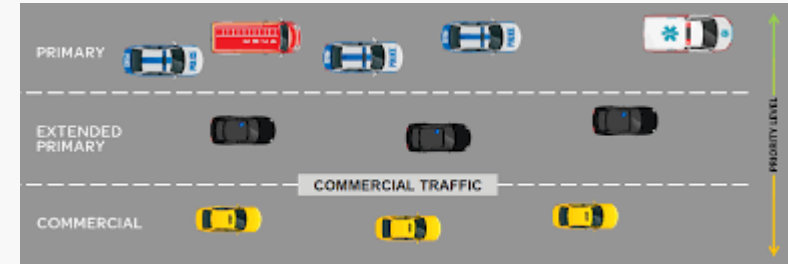
GET A GENERATOR AND KEEP IT FIT FOR SERVICE..... PLEASE !!

FirstNet

Quality

Priority

Preemption



FirstNet

Is it My Time?

Band14?

What is 5G?

FirstNet

Orange SIM Older devices

Black SIM Newer Devices

List is at Firstnet.com

What is the difference?

Coverage now

Coverage soon



Orange SIM

Older Devices

Commercial Network First

Band 14 second

Can Roam to other providers



Black SIM

Band14 First

Commercial Second

Static IP addresses

Holds Band 14 signal

Good and Bad

Advanced Messaging not in place

Resolved end of 2020

NO ROAMING



Coverage

Local provider will have a map

System is 60% done

Will be 100% of current sites Spring 2020

Full build out scheduled done end 2021

These are MICHIGAN numbers as of last week



MPSCS

Interoperability doesn't mean 4000 talk groups in every radio.....

Please use provided Event Channels

Zone F is your Friend

Zone G Dynamic Regroup

Zone F for Ground OPS

Repeated and Direct

Repeated for larger coverage (3 Miles)

Direct for Shorter Distances (1.5 Miles)

Great Building penetration

Great Basement Penetration

Can be connected via Gateway to OnNet TGs



Zone F Talk Groups

8CALL90

8CAL90D

7CALL50D

8TAC91

8TAC91D

7TAC51D

8TAC92

8TAC92D

7TAC52D

8TAC93

8TAC93D

7TAC53D

8TAC94

8TAC94D

7TAC54D

7TAC55D

AUX COM

We forget about them way too much!!

Can interface with MPSCS

Works outside of MPSCS

Not just Voice..... Data as well and Video

Building Better digital network

Old School radios that will always work as long as they
have power.

OLD School or Current

VHF (Line of site) all EMS units

UHF (Line of site Shorter Distance) Some EMS vehicles

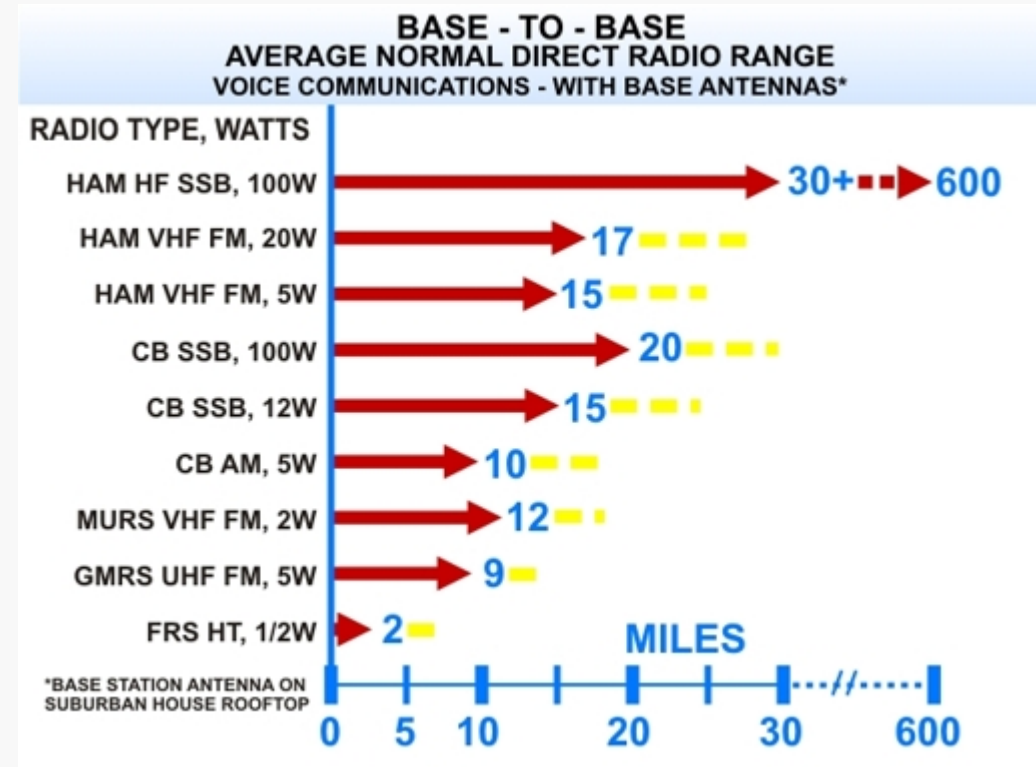
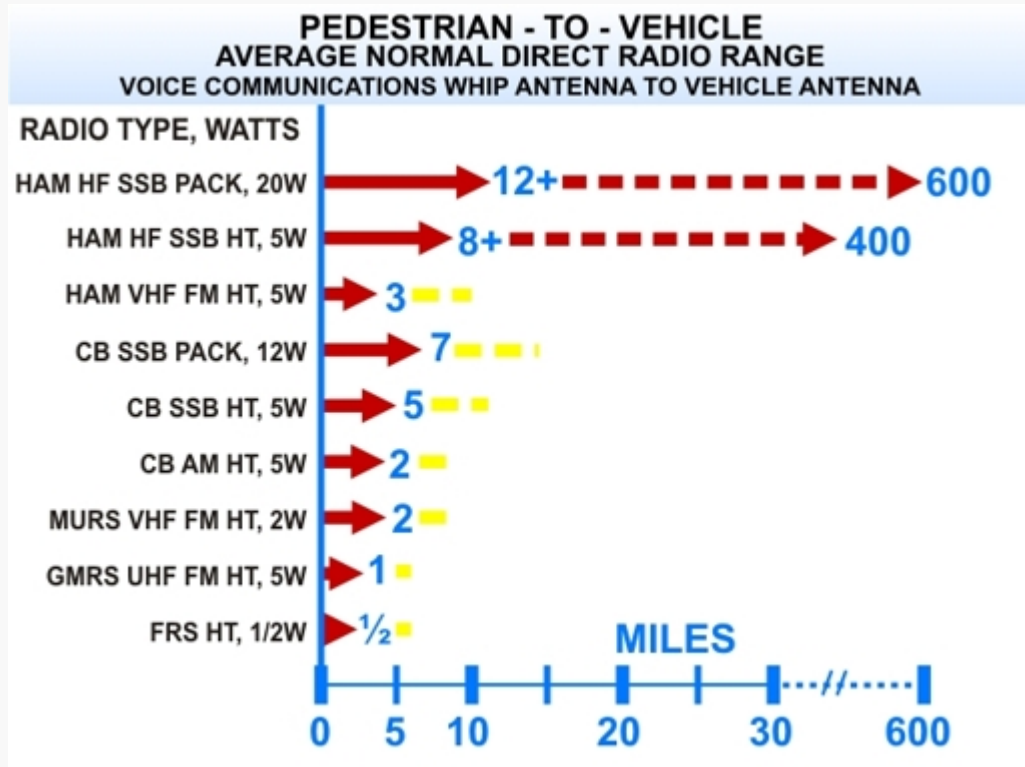
FRS (Family Radio Service) (Local 2 watts) Big Box Stores

GMRS (General Mobile Service Radio) (50 watts up to 40 miles)

Citizens Band



Old School Communications



All Michigan EMS Units

Statewide "on-scene" coordination frequency:

VHF 155.355 MHz (Disaster)

VHF VTAC channels

Questions???

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