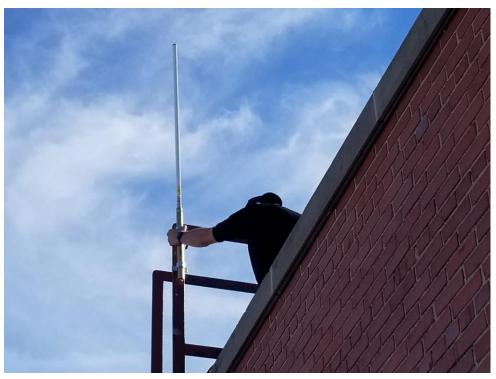


# **Creating Continuity out of Chaos:**

#### A Local's Guide to Interoperability and the WI-FOG

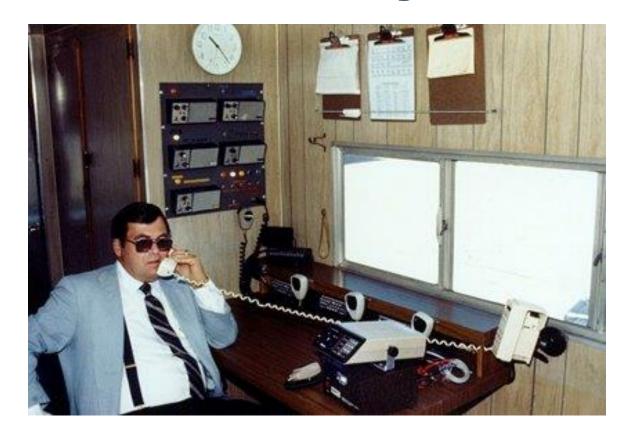




DISCLAIMER: This presentation contains realworld examples. These examples are intended as learning opportunities without judgement.



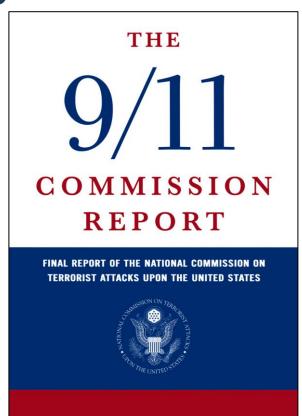
# **History**





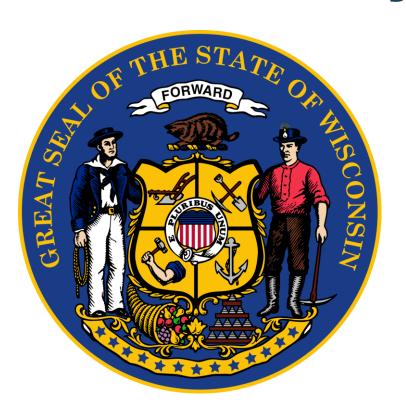
## **History**

- 9/11 Commission Report
- Enhancing
   Interoperability through
   the Office of Emergency
   Communications





## **History Cont.**



- Governance
  - InteroperabilityCouncil andSubcommittees
- Communications
   Unit (COMU)



## What Works and What Doesn't?





## Patrick Cudahy Fire (2009)

#### Worked

- Law and Fire mutual aid
- One mile evacuation by mutual aid agencies
- WI-TERT deployment

#### Didn't Work

- Radio programming
- Channel naming
- VHF vs. 800
- Removal of VHF channels in PSAPs



## Act 10 Budget Protest (2011)







## **Act 10 Protest**

#### Worked

- AHJ engaged mutual aid early
- 4 COML's assigned
- Cache management
- WI-TERT deployment for RADOs and COMLs
- Provided support to 500+ officers at peak staffing

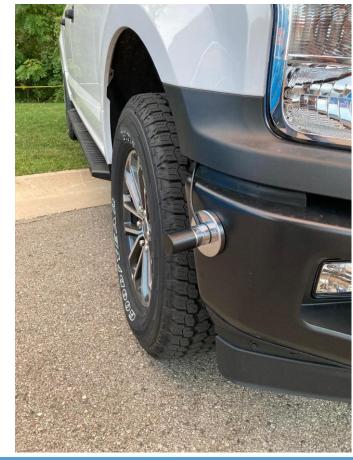
#### Didn't Work

- Radio programming
- Channel naming
- VHF vs. 800



# Kenosha Civil Unrest, August-September 2020







## **Kenosha Civil Unrest (2020)**

#### Worked

- COML deployed with initial SMART request
- COMU staffed event daily for two weeks
- Leveraged partnerships for equipment
- Cache management
- POTUS/DNC nominee visit

#### Didn't Work

- Radio programming
- Channel naming
- VHF vs. 800
- POTUS/DNC nominee visit

 COVID-19 pandemic in full swing



# Kenosha Charging Decision (Jan 2021)

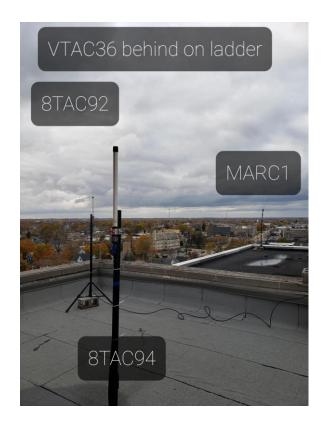






# Kenosha Rittenhouse Verdict (Nov 2021)







## **Kenosha Civil Unrest (2021)**

#### Worked

- AHJ leveraged existing COMU partnerships
- COML/COMT staffed in shifts
- Temp fixed equipment from 2020 still in place
- Radio programming was being addressed

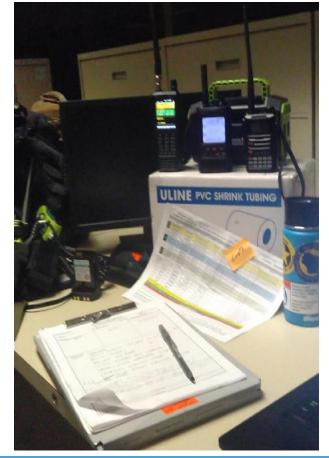
#### Didn't Work

- Radio programming
- Channel naming
- VHF vs. 800
- COVID-19 pandemic still in full swing



# Racine In-Custody Death Charging Decision (Jan 2022)







## Racine ICD (2022)

#### Worked

- AHJ proactively engaged COMU
- AHJ bought fixed equipment to install for event
- COML/COMT staffed in shifts
- COMU brought into planning early

#### Didn't Work

- VHF vs. 800 agencies
- COVID-19 pandemic still in full swing



## What Can You Do?





Wisconsin Interoperable Communications Field Operations Guide Ver 2.1

Nov 2021

#### Ch. 10.3 VHF BAND

Ch. 10.3(a) Statewide VHF

Statewide VHF Interoperability Channels								
Channel	Mob. RX		Mob. TX		Α	Notes		
Name	Freq	Tone	Freq	Tone	D	Notes		
EMS A	155.4000	CSQ	155.4000	D156	Α	EMS (Advanced Life Support) <sup>1</sup>		
EMS B <sup>4</sup> (VMED28)	155.3400 155.3400	CSQ 156.7	155.3400 155.3400	D156 156.7	Α	EMS¹ Do not use for incident interoperability communications. This is an active EMS channel		
EMS C	155.2800	D156	155.2800	D156	Α	EMS/Public Health1		
FG BLACK <sup>4</sup> (VFIRE24)	154.2725 154.2725	94.8 156.7	154.2725 154.2725	94.8 156.7	Α	Do not use at scene with IFERN or FG WHITE. Frequently used for aeromedical landing zone coordination		
FG BLUE <sup>4</sup> (VFIRE23)	154.2950 154.2950	85.4 156.7	154.2950 154.2950	85.4 156.7	Α	Do not use at scene with FG GRAY or IFERN2		
FG GOLD	153.8375	91.5	153.8375	91.5	Α	Do not use at scene with FG RED or MARC1		
FG GRAY <sup>4</sup> (VFIRE25)	154.2875 154.2875	136.5 156.7	154.2875 154.2875	136.5 156.7	Α	Do not use at scene with FG WHITE or FG BLUE		
FG RED	153.8300	69.3	153.8300	69.3	Α	Do not use at scene with FG GOLD		
FG WHITE <sup>4</sup> (VFIRE21)	154.2800 154.2800	74.4 156.7	154.2800 154.2800	74.4 156.7	Α	Do not use at scene with FG BLACK or FG GRAY		
IFERN <sup>4</sup> (VFIRE22)	154.2650 154.2650	210.7 156.7	154.2650 154.2650	210.7 156.7	Α	Do not use at scene with FG BLACK		
IFERN2 <sup>4</sup> (VFIRE26)	154.3025 154.3025	67.0 156.7	154.3025 154.3025	67.0 156.7	Α	Do not use at scene with FG BLUE		

FOR USE BY PUBLIC SAFETY AGENCIES

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#### INTEROPERABILITY CHANNELS AND TALKGROUPS

WI EMERGENCY HOTLINE - CALL 800-943-0003, Opt. 2 for Resource Requests



Wisconsin Interoperable Communications Field Operations Guide Ver 2.1

Nov 2021

#### Ch. 10.6(b) Nationwide 800 MHz

Non-Federal 800 MHz Interoperability Mutual Aid Repeater Channels							
Channel Name	Mob. RX	Mob. TX	Description				
8CALL90	851.0125 (866.0125)	806.0125 (821.0125)	Calling				
8CALL90D	851.0125 (866.0125)	851.0125 (866.0125)	Calling – Direct				
8TAC91	851.5125 (866.5125)	806.5125 (821.5125)	Tactical				
8TAC91D	851.5125 (866.5125)	851.5125 (866.5125)	Tactical - Direct				
8TAC92	852.0125 (867.0125)	807.0125 (822.0125)	Tactical				
8TAC92D	852.0125 (867.0125)	852.0125 (867.0125)	Tactical - Direct				
8TAC93	852.5125 (867.5125)	807.5125 (822.5125)	Tactical				
8TAC93D	852.5125 (867.5125)	852.5125 (867.5125)	Tactical - Direct				
8TAC94	853.0125 (868.0125)	808.0125 (823.0125)	Tactical				
8TAC94D	853.0125 (868.0125)	853.0125 (868.0125)	Tactical - Direct				

- CTCSS 156.7(5A) RX and TX.
- Default operations should be carrier squelch on RX, CTCSS 167.9 TX.
- The frequency in parenthesis, which is 15 MHz higher, is the frequency used before rebanding channel names were ICALL, ITAC1 ITAC4.
- . Wideband FM 20K0F3E before and after rebanding.
- If the user can enable/disable without reprogramming the radio, the indicated CTCSS tone should also be programmed for receive, and the user instructed how and when to enable/disable.



## **Aiming for Success**

- Successful operations typically contain the following:
  - Strong Command Emphasis
  - Training on Equipment and Plans
  - Knowledge of Mutual Aid
  - Understanding the utility of the COMU

Utilize these to make your agency more resilient!



### **But Wait!**

 There is one integral element for any of these suggestions to work

# **Command Emphasis**



## What Should I Do Next?





## **Know What is in Your Radio**

- Interoperability Channel Programming
  - NIFOG/WIFOG channels are necessary for mutual aid communications
  - Ensure these channels are programmed correctly into department radios & that staff is aware of their presence
- Radio Training
  - General Knowledge & Understanding



## **Know Your Equipment**

- Know what you have and what you can bring to the party (with correct programming!)
  - Radios with NIFOG/WIFOG programming
  - Repeaters with Interoperability Channels
    - Local repeater installations—consider partnering with mutual aid partners
    - Understand what other repeaters are in the area to (this may require interstate communication!)
    - Make sure that a person and a backup know how to access and operate the repeater (even remotely)
    - Ex: Langlade Derecho



# Langlade Derecho (July 2019)





# **Asking for Help**

#### Local Resources

- What is in your backyard?
  - Personnel and equipment
  - Know your neighbors

#### State Resources

- Available when local resources are exhausted or unavailable
- Requested through the
   Wisconsin Emergency Hotline
  - 1-800-943-0003, option 2
  - Personnel & equipment





## **Resource Highlight--COML**

- Communications Unit Leaders (COMLs)
  - Important resource
  - Training opportunities for internal development





## In Closing

### Tips for Success

- 1. Know what is in your radio
- 2. Know your equipment
- 3. Know how to ask for help

However, none of this will work without command emphasis!



## **Questions?**





### **Contact**

- Jamie Formea, COML/COMT
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