



# Montgomery County

Radio Training for 800 MHz Rebanding  
Main Training Video



# Course Content



## **This Session will Include:**

- General Radio Review
- Overview of Montgomery County's Radio System
- Rebanding & Interoperability
- Channel Matrix Discussion
- Talk Group Usage, Event Channels, Local Channels
- Portable Radio Training
- Mobile Radio Training
- How to Report a Problem





**Web-Based Video Training  
will be available  
to all services on the following topics:**

General Radio Review

*Portable Radios:*

XTS 2500, Type II

APX 6000

APX 7000XE

XTS 5000, Type II and III

MTS 2000 Type II and III

*Mobile Radios:*

MCS 2000

XTL 2500 M5

XTL 5000 W4, W5, W7, and W9



# General Radio Use: Portable Radio



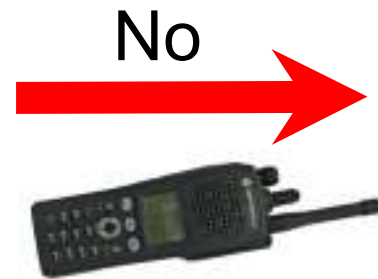
Mobile Radios produce more Radio Frequency Energy than Portables, so communication may be possible even if your Portable does not transmit.

When Transmitting, remove Portable from side so that antenna is positioned High and Vertical.

Antenna systems are vertically polarized (all transmitting and receiving antennas are mounted vertically). ***If Portables are held horizontally, this will limit performance*** in fringe areas of coverage.



Yes



# General Radio Use: Inside Buildings



## Physics of Radios When Inside Buildings

*Transmitting Out will become more difficult when:*

You transcend DEEPER into a building (especially  
Concrete & Steel)

You descend LOWER into a structure (basements)

*Coverage will be Inhibited by:*

Elevator Shafts, Basements

High Density Buildings: Hospitals, Schools, Factories

Below ground level areas: Valleys, Basements



# General Radio Use: 800 MHz Rebanding



## 800 MHz Rebanding Mandate

Refers to changes within the 800 MHz band that are taking place nationwide.

**Problem:** Interference to 800 MHz public safety communication systems caused by high-density commercial wireless systems (primarily owned by Sprint Nextel).

**Cause:** The Federal Communications Commission original 800 MHz Band plan did not anticipate the extent of development and growth of cellular-type systems.

**Solution:** The FCC adopted a comprehensive plan for the 800 MHz public safety licensees to reconfigure their systems and operate on new channel assignments in the 800 MHz band, with the cost of being paid by Sprint Nextel Corporation.

# General Radio Use: Interoperability



## **Interoperability**

Addressing the need for First Responders from different jurisdictions to be able to participate in the same talk group for better coordination and collaboration of response to an event.

All Fire, EMS, Police, and Public Safety can communicate on the same system

No More High or Low Band Systems

Units assigned to a call can switch to and use the same Talk Groups

# General Radio Use: Mutual Aid Channels



## National Mutual Aid Channels

NPSTC (*National Public Safety Telecommunications Council*) eventually published a channel naming standard for interoperability channels. It is now necessary for nationwide compliance to naming these channels.

OLD Channels	NEW Channels
911 Help	8 CALL 90
I TAC 1	8 TAC 91
I TAC 2	8 TAC 92
I TAC 3	8 TAC 93
I TAC 4	8 TAC 94

# General Radio Use: Mutual Aid Channels



## National Mutual Aid Channels

OLD Channels	NEW Channels	Use
911 Help	8 CALL 90	On Repeater <i>Works Inside County</i>
I TAC 1	8 TAC 91	<b>NOT</b> on Repeater <i>Works Outside County</i>
I TAC 2	8 TAC 92	On Repeater <i>Works Inside County</i>
I TAC 3	8 TAC 93	On Repeater <i>Works Inside County</i>
I TAC 4	8 TAC 94	<b>NOT</b> on Repeater <i>Works Outside County</i>

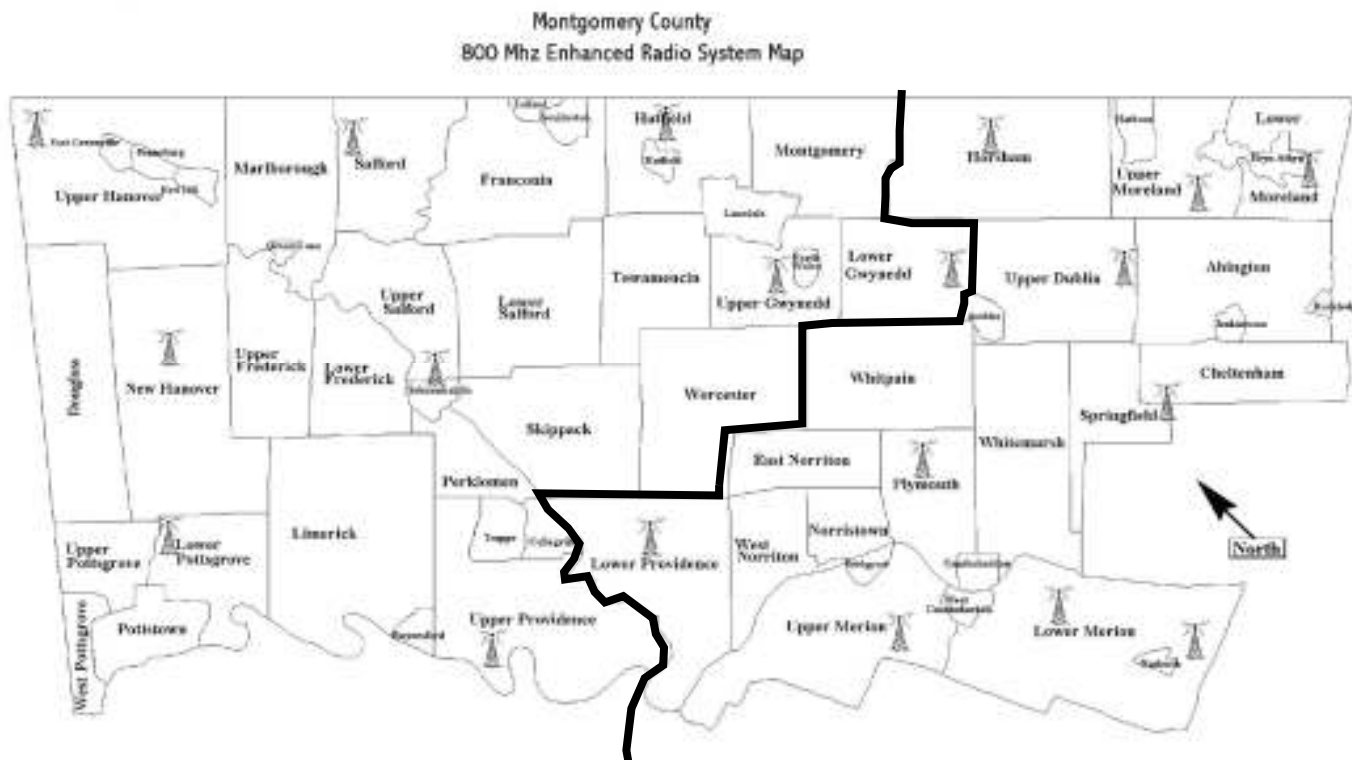
# General Radio Use: Radio System Architecture



County divided into **WEST** and **EAST**,  
so that the 800 MHz system is used to its fullest potential.

<b>Service</b>	<b>WEST</b>	<b>EAST</b>
<b>Police</b>	<b>1, 2, 3, 12</b>	<b>4, 5, 6, 7, 8, 9, 11</b>
<b>Fire</b>	<b>1, 2, 3</b>	<b>4, 5, 6</b>
<b>EMS</b>	<b>County Wide</b>	

# General Radio Use: Radio System Architecture



West / East Divide

# General Radio Use: Radio System Architecture



## **Fire:**

FE & FW Dispatch, 6 Regions, 6 Fire Ground Channels, 10 Event Channels, 3 Fire Police Channels

## **Police:**

11 PD Channels, 11 Regions, 10 Event Channels  
5 PTAC Channels, 5 Police-On-Scene Channels

## **EMS:**

1 Dispatch, 1 Hail, 1 Operations Channel, 10 Event Channels, 6 Fire Ground Channels

## **All Services:**

***Public Safety Coordination (PSCORD)***

# General Radio Use: Radio Channel Matrix



## Secure Police Radios - West

Police West		Police East 1		Police East 2		PTac/Secure		Events		Local		National		Old Loc/Nat	
A	PD 1	B	PD 4	C	PD 8	D	PTAC 1	E	EMERG	F	POS 1	G	8CALL90	O	POS 1
A	REGN 1	B	REGN 4	C	REGN 8	D	PTAC 2	E	EVENT 1	F	POS 2	G	8TAC91	O	POS 2
A	DATA	B	DATA	C	DATA	D	PTAC 3	E	EVENT 2	F	POS 3	G	8TAC92	O	POS 3
A	CTYTWID	B	CTYTWID	C	CTYTWID	D	PTAC 4	E	EVENT 3	F	POS 4	G	8TAC93	O	POS 4
A	PSCORD	B	PSCORD	C	PSCORD	D	PTAC 5	E	EVENT 4	F	ASTRO 5	G	8TAC94	O	ASTRO 5
A	PD 2	B	PD 5	C	PD 9	D	SECURE	E	EVENT 5	F	PSCL 1	G	TACRPT	O	PSCL 1
A	REGN 2	B	REGN 5	C	REGN 9	D	SCUR 2	E	EVENT 6	F	PSCL 2	G	DYNAMC	O	PSCL 2
A	PD 3	B	PD 6	C	PD 11	D	SCUR 3	E	EVENT 7	F	CHOPS	G		O	911HELP
A	REGN 3	B	REGN 6	C	REGN 11	D	SCUR 4	E	EVENT 8	F	CHOPS 2	G		O	ITAC 1
A	PD 12	B	PD 7	C	SHERIFF	D	SCUR 5	E	EVENT 9	F	CHOPS 3	G		O	ITAC 2
A	SECURE	B	REGN 7	C	SECURE	D		E	EVENT10	F	TACRPT	G		O	ITAC 3
A		B	PD 56	C	41 Disp	D		E		F	56 LOC	G		O	ITAC 4
A		B	SECURE	C		D		E		F	MALL	G		O	TACRPT
A		B		C		D		E		F		G		O	CHOPS
A		B		C		D		E		F		G		O	CHOPS 2
A		B		C		D		E		F		G		O	CHOPS 3
												Strapped Encrypted			

# General Radio Use: Radio Channel Matrix



## *Non-Secure Police Radios - West*

Police West		Police East 1		Police East 2		PTac/Secure		Events		Local		National		Old Loc/Nat	
A	PD 1	B	PD 4	C	PD 8	D	PTAC 1	E	EMERG	F	POS 1	G	8CALL90	O	POS 1
A	REGN 1	B	REGN 4	C	REGN 8	D	PTAC 2	E	EVENT 1	F	POS 2	G	8TAC91	O	POS 2
A	DATA	B	DATA	C	DATA	D	PTAC 3	E	EVENT 2	F	POS 3	G	8TAC92	O	POS 3
A	CTYTWID	B	CTYTWID	C	CTYTWID	D	PTAC 4	E	EVENT 3	F	POS 4	G	8TAC93	O	POS 4
A	PSCORD	B	PSCORD	C	PSCORD	D	PTAC 5	E	EVENT 4	F	ASTRO 5	G	8TAC94	O	ASTRO 5
A	PD 2	B	PD 5	C	PD 9	D		E	EVENT 5	F	PSCL 1	G	TACRPT	O	PSCL 1
A	REGN 2	B	REGN 5	C	REGN 9	D		E	EVENT 6	F	PSCL 2	G	DYNAMC	O	PSCL 2
A	PD 3	B	PD 6	C	PD 11	D		E	EVENT 7	F	CHOPS	G		O	911HELP
A	REGN 3	B	REGN 6	C	REGN 11	D		E	EVENT 8	F	CHOPS 2	G		O	ITAC 1
A		B	PD 7	C	SHERIFF	D		E	EVENT 9	F	CHOPS 3	G		O	ITAC 2
A		B	REGN 7	C	41 Disp	D		E	EVENT10	F	TACRPT	G		O	ITAC 3
A		B		C		D		E		F	56 LOC	G		O	ITAC 4
A		B		C		D		E		F	MALL	G		O	TACRPT
A		B		C		D		E		F		G		O	CHOPS
A		B		C		D		E		F		G		O	CHOPS 2
A		B		C		D		E		F		G		O	CHOPS 3

# General Radio Use: Radio Channel Matrix



## **For Police Radios:**

The Radio Channel Matrix is designed so that

***“A” Bank, Channel 1 and 2***

***are your “HOME” Talk Group and Region.***

# General Radio Use: Radio Channel Matrix



## West Fire Digital Radio

	New/Post RB	New/Post RB	New/Post RB	New/Post RB	New/Post RB
1	ORANGE	ORANGE	ORANGE	PSCL 1	CC FD 1
2	F REGN 1	F REGN 4	EMS HAIL	PSCL 2	CC FD 2
3	EVENT 1	EVENT 4	EMS OPS	CHOPS 2	CC FDPD
4	FGND 1	FGND 4	ER 1	CHOPS 3	CC FRPOL
5	F REGN 2	F REGN 5	ER 2	8CALL90	CC INOP1
6	EVENT 2	EVENT 5	PSCORD	8TAC91	CC INOP2
7	FGND 2	FGND 5	EVENT 7	8TAC92	CC INOP3
8	F REGN 3	F REGN 6	EVENT 8	8TAC93	CC INOP4
9	EVENT 3	EVENT 6	EVENT 9	8TAC94	
10	FGND 3	FGND 6	EVENT 10	DYNAMIC	
11	FD POL W	FD POL E	EMA Cord		
12	FP LOCAL	FP LOCAL	EMA West		
13	PSCORD	PSCORD	EMA East		
14	EMERG	EMERG	TACRPT		
15	F DISP W	F DISP E	EMS DISP		
16	ORANGE	ORANGE	ORANGE		

	Old	Old	Old	Old	Old
1	ORANGE	ORANGE	ORANGE	PSCL 1	CC FD 1
2	F REGN 1	F REGN 4	EMS HAIL	PSCL 2	CC FD 2
3	EVENT 1	EVENT 4	EMS OPS	CHOPS 2	CC FDPD
4	FGND 1	FGND 4	ER 1	CHOPS 3	CC FRPOL
5	F REGN 2	F REGN 5	ER 2	911HELP	CC INOP1
6	EVENT 2	EVENT 5	PSCORD	I TAC 1	CC INOP2
7	FGND 2	FGND 5	EVENT 7	I TAC 2	CC INOP3
8	F REGN 3	F REGN 6	EVENT 8	I TAC 3	CC INOP4
9	EVENT 3	EVENT 6	EVENT 9	I TAC 4	
10	FGND 3	FGND 6	EVENT 10	DYNAMIC	
11	FD POL W	FD POL E	EMA Cord		
12	FP LOCAL	FP LOCAL	EMA West		
13	PSCORD	PSCORD	EMA East		
14	EMERG	EMERG	TACRPT		
15	F DISP W	F DISP E	EMS DISP		
16	ORANGE	ORANGE	ORANGE		

# General Radio Use: Radio Channel Matrix



## *East Fire Digital Radio*

	New/Post RB	New/Post RB	New/Post RB	New/Post RB	New/Post RB
1	ORANGE	ORANGE	ORANGE	PSCL 1	CC FD 1
2	F REGN 4	F REGN 1	EMS HAIL	PSCL 2	CC FD 2
3	EVENT 4	EVENT 1	EMS OPS	CHOPS 2	CC FDPD
4	FGND 4	FGND 1	ER 1	CHOPS 3	CC FRPOL
5	F REGN 5	F REGN 2	ER 2	8CALL90	CC INOP1
6	EVENT 5	EVENT 2	PSCORD	8TAC91	CC INOP2
7	FGND 5	FGND 2	EVENT 7	8TAC92	CC INOP3
8	F REGN 6	F REGN 3	EVENT 8	8TAC93	CC INOP4
9	EVENT 6	EVENT 3	EVENT 9	8TAC94	
10	FGND 6	FGND 3	EVENT 10	DYNAMIC	
11	FD POL E	FD POL W	EMA Cord		
12	FP LOCAL	FP LOCAL	EMA West		
13	PSCORD	PSCORD	EMA East		
14	EMERG	EMERG	TACRPT		
15	F DISP E	F DISP W	EMS DISP		
16	ORANGE	ORANGE	ORANGE		

	Old	Old	Old	Old	Old
1	ORANGE	ORANGE	ORANGE	PSCL 1	CC FD 1
2	F REGN 4	F REGN 1	EMS HAIL	PSCL 2	CC FD 2
3	EVENT 4	EVENT 1	EMS OPS	CHOPS 2	CC FDPD
4	FGND 4	FGND 1	ER 1	CHOPS 3	CC FRPOL
5	F REGN 5	F REGN 2	ER 2	911HELP	CC INOP1
6	EVENT 5	EVENT 2	PSCORD	I TAC 1	CC INOP2
7	FGND 5	FGND 2	EVENT 7	I TAC 2	CC INOP3
8	F REGN 6	F REGN 3	EVENT 8	I TAC 3	CC INOP4
9	EVENT 6	EVENT 3	EVENT 9	I TAC 4	
10	FGND 6	FGND 3	EVENT 10	DYNAMIC	
11	FD POL E	FD POL W	EMA Cord		
12	FP LOCAL	FP LOCAL	EMA West		
13	PSCORD	PSCORD	EMA East		
14	EMERG	EMERG	TACRPT		
15	F DISP E	F DISP W	EMS DISP		
16	ORANGE	ORANGE	ORANGE		

# General Radio Use: Radio Channel Matrix



## West EMS Digital Radio

	New/Post RB	New/Post RB	New/Post RB	New/Post RB	New/Post RB		Old	Old	Old	Old	Old
1	ORANGE	ORANGE	ORANGE	PSCL 1	CC FD 1	1	ORANGE	ORANGE	ORANGE	PSCL 1	CC FD 1
2	EMS HAIL	F REGN 1	F REGN 4	PSCL 2	CC FD 2	2	EMS HAIL	F REGN 1	F REGN 4	PSCL 2	CC FD 2
3	EMS OPS	EVENT 1	EVENT 4	CHOPS 2	CC FDPD	3	EMS OPS	EVENT 1	EVENT 4	CHOPS 2	CC FDPD
4	ER 1	FGND 1	FGND 4	CHOPS 3	CC FRPOL	4	ER 1	FGND 1	FGND 4	CHOPS 3	CC FRPOL
5	ER 2	F REGN 2	F REGN 5	SCALL90	CC INOP1	5	ER 2	F REGN 2	F REGN 5	911HELP	CC INOP1
6	PSCORD	EVENT 2	EVENT 5	8TAC91	CC INOP2	6	PSCORD	EVENT 2	EVENT 5	I TAC 1	CC INOP2
7	EVENT 7	FGND 2	FGND 5	8TAC92	CC INOP3	7	EVENT 7	FGND 2	FGND 5	I TAC 2	CC INOP3
8	EVENT 8	F REGN 3	F REGN 6	8TAC93	CC INOP4	8	EVENT 8	F REGN 3	F REGN 6	I TAC 3	CC INOP4
9	EVENT 9	EVENT 3	EVENT 6	8TAC94		9	EVENT 9	EVENT 3	EVENT 6	I TAC 4	
10	EVENT 10	FGND 3	FGND 6	DYNAMIC		10	EVENT 10	FGND 3	FGND 6	DYNAMIC	
11	EMA Cord	FD POL W	FD POL E			11	EMA Cord	FD POL W	FD POL E		
12	EMA West	FP LOCAL	FP LOCAL			12	EMA West	FP LOCAL	FP LOCAL		
13	EMA East	PSCORD	PSCORD			13	EMA East	PSCORD	PSCORD		
14	TACRPT	EMERG	EMERG			14	TACRPT	EMERG	EMERG		
15	EMS DISP	F DISP W	F DISP E			15	EMS DISP	F DISP W	F DISP E		
16	ORANGE	ORANGE	ORANGE			16	ORANGE	ORANGE	ORANGE		

# General Radio Use: Radio Channel Matrix



## *East EMS Digital Radio*

	New/Post RB	New/Post RB	New/Post RB	New/Post RB	New/Post RB		Old	Old	Old	Old	Old
1	ORANGE	ORANGE	ORANGE	PSCL 1	CC FD 1	1	ORANGE	ORANGE	ORANGE	PSCL 1	CC FD 1
2	EMS HAIL	F REGN 4	F REGN 1	PSCL 2	CC FD 2	2	EMS HAIL	F REGN 4	F REGN 1	PSCL 2	CC FD 2
3	EMS OPS	EVENT 4	EVENT 1	CHOPS 2	CC FDPD	3	EMS OPS	EVENT 4	EVENT 1	CHOPS 2	CC FDPD
4	ER 1	FGND 4	FGND 1	CHOPS 3	CC FRPOL	4	ER 1	FGND 4	FGND 1	CHOPS 3	CC FRPOL
5	ER 2	F REGN 5	F REGN 2	8CALL90	CC INOP1	5	ER 2	F REGN 5	F REGN 2	911HELP	CC INOP1
6	PSCORD	EVENT 5	EVENT 2	8TAC91	CC INOP2	6	PSCORD	EVENT 5	EVENT 2	I TAC 1	CC INOP2
7	EVENT 7	FGND 5	FGND 2	8TAC92	CC INOP3	7	EVENT 7	FGND 5	FGND 2	I TAC 2	CC INOP3
8	EVENT 8	F REGN 6	F REGN 3	8TAC93	CC INOP4	8	EVENT 8	F REGN 6	F REGN 3	I TAC 3	CC INOP4
9	EVENT 9	EVENT 6	EVENT 3	8TAC94		9	EVENT 9	EVENT 6	EVENT 3	I TAC 4	
10	EVENT 10	FGND 6	FGND 3	DYNAMIC		10	EVENT 10	FGND 6	FGND 3	DYNAMIC	
11	EMA Cord	FD POL E	FD POL W			11	EMA Cord	FD POL E	FD POL W		
12	EMA West	FP LOCAL	FP LOCAL			12	EMA West	FP LOCAL	FP LOCAL		
13	EMA East	PSCORD	PSCORD			13	EMA East	PSCORD	PSCORD		
14	TACRPT	EMERG	EMERG			14	TACRPT	EMERG	EMERG		
15	EMS DISP	F DISP E	F DISP W			15	EMS DISP	F DISP E	F DISP W		
16	ORANGE	ORANGE	ORANGE			16	ORANGE	ORANGE	ORANGE		

# General Radio Use: Radio Channel Matrix



## EMS / QRS Analog Radio

	New/ Post RB	New/ Post RB	New/ Post RB
1	ORANGE	EVENT1	FGND 1
2	EMS HAIL	EVENT2	FGND 2
3	EMS OPS	EVENT3	FGND 3
4	ER 1	EVENT4	FGND 4
5	ER 2	EVENT5	FGND 5
6	PSCORD	EVENT6	FGND 6
7	EVENT 7	EVENT7	FP LOC
8	EVENT 8	EVENT8	SCALL90
9	EVENT 9	EVENT9	8TAC91
10	EVENT 10	EVNT10	8TAC92
11	EMA West	EMA West	8TAC93
12	EMA East	EMA East	8TAC94
13	PSCL 1	EMERG	DYNAMIC
14	PSCL 2		TACRPT
15	EMS DISP		PSCL 1
16	ORANGE		PSCL 2

	Old	Old	Old
1	ORANGE	EVENT1	FGND 1
2	EMS HAIL	EVENT2	FGND 2
3	EMS OPS	EVENT3	FGND 3
4	ER 1	EVENT4	FGND 4
5	ER 2	EVENT5	FGND 5
6	PSCORD	EVENT6	FGND 6
7	EVENT 7	EVENT7	FP LOC
8	EVENT 8	EVENT8	911 HLP
9	EVENT 9	EVENT9	1 TAC 1
10	EVENT 10	EVNT10	1 TAC 2
11	EMA West	EMA West	1 TAC 3
12	EMA East	EMA East	1 TAC 4
13	PSCL 1	EMERG	DYNAMIC
14	PSCL 2		TACRPT
15	EMS DISP		PSCL 1
16	ORANGE		PSCL 2

## General Radio Use: Loaner Radios



### Important Note

For Departments Utilizing LOANER Radios.

***Once Trained on LOANER Radios and Current Radios are in Storage -- Radios from storage CANNOT be used under any circumstance!***

## Overview: Talk Group Usage, On Scene



Once on Scene:

- You will select and use a **Local Channel**
- Be aware that there are Conventional New and Conventional Local Channels

Local		Old Loc/Nat	
F	POS 1	O	POS 1
F	POS 2	O	POS 2
F	POS 3	O	POS 3
F	POS 4	O	POS 4
F	ASTRO 5	O	ASTRO 5
F	PSCL 1	O	PSCL 1
F	PSCL 2	O	PSCL 2
F	CHOPS	O	911HELP
F	CHOPS 2	O	ITAC 1
F	CHOPS 3	O	ITAC 2
F	TACRPT	O	ITAC 3
F	56 LOC	O	ITAC 4
F	MALL	O	TACRPT
F		O	CHOPS
F		O	CHOPS 2
F		O	CHOPS 3

# Overview: Event / PTAC Channels



## Event / PTAC Channels:

- Are used for large-scale or multi-agency incidents.
- Event / PTAC Channels are requested by the Incident Commander or assigned by County. Event / PTAC Channels can be monitored at the request of the Incident Commander.
- Once an Event / PTAC Channel is assigned, **ALL** units on that incident will switch to and operate off that Event / PTAC Channel.

PTac/Secure		Events	
D	PTAC 1	E	EMERG
D	PTAC 2	E	EVENT 1
D	PTAC 3	E	EVENT 2
D	PTAC 4	E	EVENT 3
D	PTAC 5	E	EVENT 4
D		E	EVENT 5
D		E	EVENT 6
D		E	EVENT 7
D		E	EVENT 8
D		E	EVENT 9
D		E	EVENT10
D		E	
D		E	
D		E	
D		E	
D		E	

# Overview: Event Channels vs. Local Channels



PTac/Secure		Events	
D	PTAC 1	E	EMERG
D	PTAC 2	E	EVENT 1
D	PTAC 3	E	EVENT 2
D	PTAC 4	E	EVENT 3
D	PTAC 5	E	EVENT 4
D		E	EVENT 5
D		E	EVENT 6
D		E	EVENT 7
D		E	EVENT 8
D		E	EVENT 9
D		E	EVENT 10
D		E	
D		E	
D		E	
D		E	
D		E	

Event Channels

In a tactical operation, which channels are **Safer** to transmit from?

vs.

Local		Old Loc/Nat	
F	POS 1	O	POS 1
F	POS 2	O	POS 2
F	POS 3	O	POS 3
F	POS 4	O	POS 4
F	ASTRO 5	O	ASTRO 5
F	PSCL 1	O	PSCL 1
F	PSCL 2	O	PSCL 2
F	CHOPS	O	911HELP
F	CHOPS 2	O	ITAC 1
F	CHOPS 3	O	ITAC 2
F	TACRPT	O	ITAC 3
F	56 LOC	O	ITAC 4
F	MALL	O	TACRPT
F		O	CHOPS
F		O	CHOPS 2
F		O	CHOPS 3

Local Channels

# Overview: Event Channels vs. Local Channels



## Local Channels!

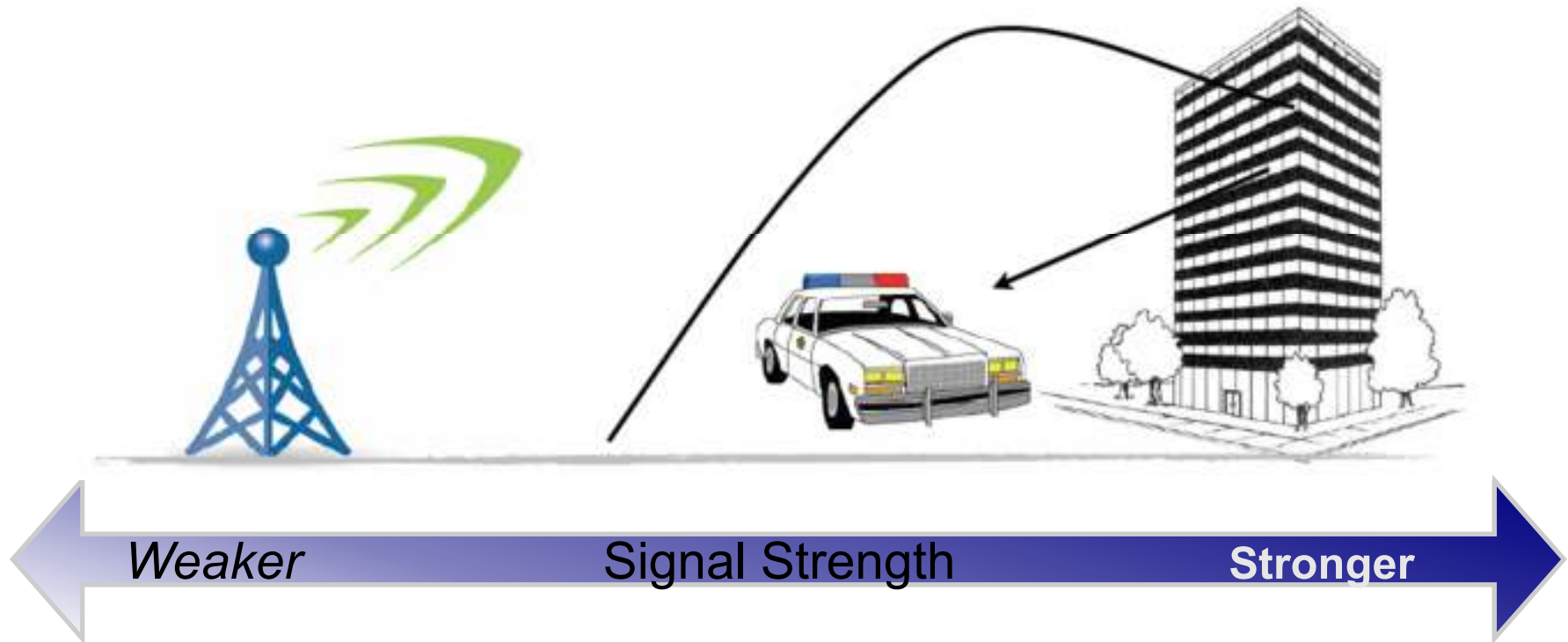
Your portable radio may be strong enough to reach outside of a building but ***MAY NOT*** be strong enough to reach the Trunked System.

Local		Old Loc/Nat	
F	POS 1	O	POS 1
F	POS 2	O	POS 2
F	POS 3	O	POS 3
F	POS 4	O	POS 4
F	ASTRO 5	O	ASTRO 5
F	PSCL 1	O	PSCL 1
F	PSCL 2	O	PSCL 2
F	CHOPS	O	911HELP
F	CHOPS 2	O	ITAC 1
F	CHOPS 3	O	ITAC 2
F	TACRPT	O	ITAC 3
F	56 LOC	O	ITAC 4
F	MALL	O	TACRPT
F		O	CHOPS
F		O	CHOPS 2
F		O	CHOPS 3

## Overview: Event Channels vs. Local Channels



Communications from within the building will reach outside, but the Signal **MAY NOT** reach the tower.

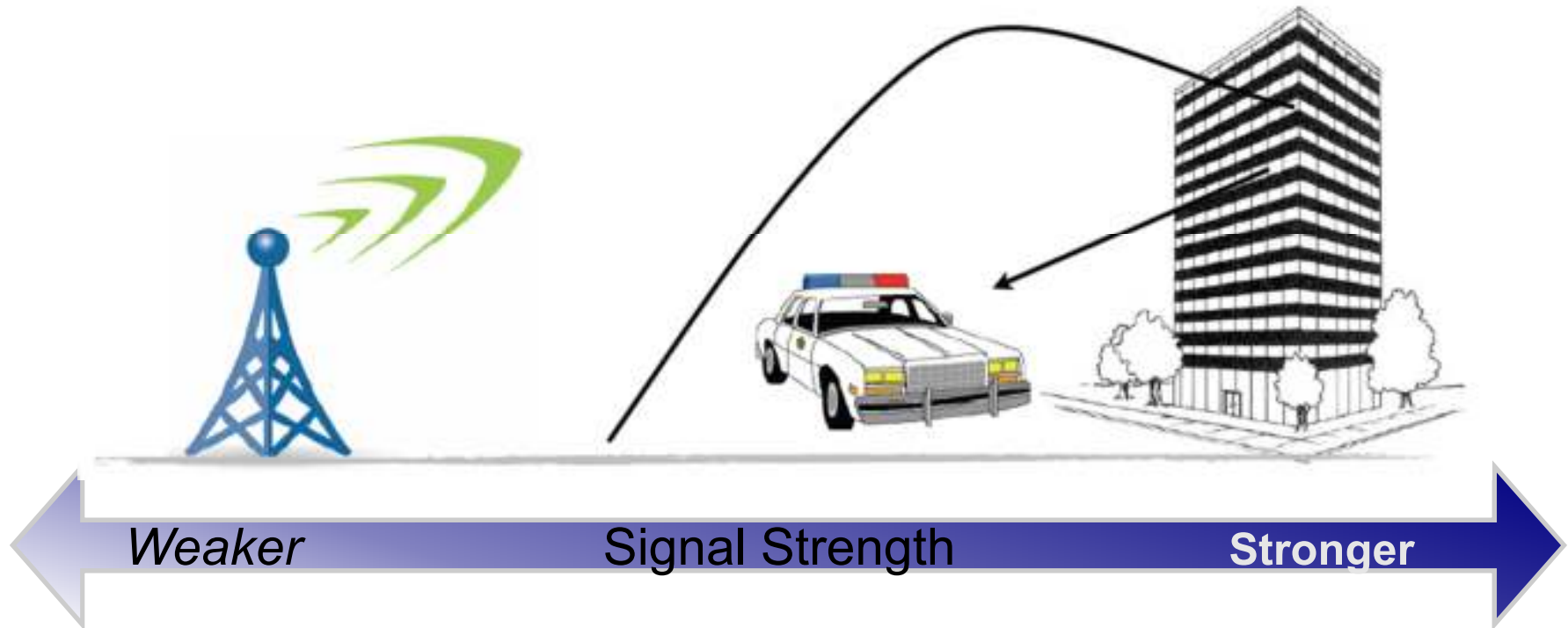


# Overview: Event Channels vs. Local Channels



***Local Towers may be Miles Away!***

As shown, Radio Signal May not Reach Tower



# Overview: Event Channels vs. Local Channels



PTac/Secure		Events	
D	PTAC 1	E	EMERG
D	PTAC 2	E	EVENT 1
D	PTAC 3	E	EVENT 2
D	PTAC 4	E	EVENT 3
D	PTAC 5	E	EVENT 4
D		E	EVENT 5
D		E	EVENT 6
D		E	EVENT 7
D		E	EVENT 8
D		E	EVENT 9
D		E	EVENT 10
D		E	
D		E	
D		E	
D		E	
D		E	

## TRUE or FALSE

If I'm on an Event Channel and I press the **Emergency** Button, someone will be **GUARANTEED** to help me.

Local		Old Loc/Nat	
F	POS 1	O	POS 1
F	POS 2	O	POS 2
F	POS 3	O	POS 3
F	POS 4	O	POS 4
F	ASTRO 5	O	ASTRO 5
F	PSCL 1	O	PSCL 1
F	PSCL 2	O	PSCL 2
F	CHOPS	O	911HELP
F	CHOPS 2	O	ITAC 1
F	CHOPS 3	O	ITAC 2
F	TACRPT	O	ITAC 3
F	56 LOC	O	ITAC 4
F	MALL	O	TACRPT
F		O	CHOPS
F		O	CHOPS 2
F		O	CHOPS 3

# Overview: Event Channels vs. Local Channels



PTac/Secure		Events	
D	PTAC 1	E	EMERG
D	PTAC 2	E	EVENT 1
D	PTAC 3	E	EVENT 2
D	PTAC 4	E	EVENT 3
D	PTAC 5	E	EVENT 4
D		E	EVENT 5
D		E	EVENT 6
D		E	EVENT 7
D		E	EVENT 8
D		E	EVENT 9
D		E	EVENT 10
D		E	
D		E	
D		E	
D		E	
D		E	

**FALSE!**

If your radio cannot reach the tower,  
NO ONE will hear you!

Local		Old Loc/Nat	
F	POS 1	O	POS 1
F	POS 2	O	POS 2
F	POS 3	O	POS 3
F	POS 4	O	POS 4
F	ASTRO 5	O	ASTRO 5
F	PSCL 1	O	PSCL 1
F	PSCL 2	O	PSCL 2
F	CHOPS	O	911HELP
F	CHOPS 2	O	ITAC 1
F	CHOPS 3	O	ITAC 2
F	TACRPT	O	ITAC 3
F	56 LOC	O	ITAC 4
F	MALL	O	TACRPT
F		O	CHOPS
F		O	CHOPS 2
F		O	CHOPS 3

# Overview: Event Channels vs. Local Channels



Using **Local Channels** will assure that someone within or outside the building will hear you

If the signal cannot reach the tower, it will likely reach another person on your Local Channel

Local		Old Loc/Nat	
F	POS 1	O	POS 1
F	POS 2	O	POS 2
F	POS 3	O	POS 3
F	POS 4	O	POS 4
F	ASTRO 5	O	ASTRO 5
F	PSCL 1	O	PSCL 1
F	PSCL 2	O	PSCL 2
F	CHOPS	O	911HELP
F	CHOPS 2	O	ITAC 1
F	CHOPS 3	O	ITAC 2
F	TACRPT	O	ITAC 3
F	56 LOC	O	ITAC 4
F	MALL	O	TACRPT
F		O	CHOPS
F		O	CHOPS 2
F		O	CHOPS 3

# Overview: Event Channels vs. Local Channels



Using Event Channels for Tactical Operations provide a **FALSE** sense of security and represents a MUCH HIGHER risk to the user

**USE Local Channels for Tactical Operations**

Local		Old Loc/Nat	
F	POS 1	O	POS 1
F	POS 2	O	POS 2
F	POS 3	O	POS 3
F	POS 4	O	POS 4
F	ASTRO 5	O	ASTRO 5
F	PSCL 1	O	PSCL 1
F	PSCL 2	O	PSCL 2
F	CHOPS	O	911HELP
F	CHOPS 2	O	ITAC 1
F	CHOPS 3	O	ITAC 2
F	TACRPT	O	ITAC 3
F	56 LOC	O	ITAC 4
F	MALL	O	TACRPT
F		O	CHOPS
F		O	CHOPS 2
F		O	CHOPS 3

# Overview: Emergency Button and Conventional Channels



## **Emergency** Button and Conventional Channels *For Fire and EMS Providers*

**Emergency** notification can be sent and received on Local Scene through Conventional (*Non Repeated*) Channels

All radios on a designated channel will be able to activate and receive **Emergency** calls to radios on the designated channel (on-scene “distress” call)

Receiving Radios will beep and display the Radio # of the person requesting the **Emergency**

# Portable Radio Training



# Mobile Radio Training

