

Incident Communications Planning

Tabletop Exercise

12/21/2023

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Pinellas County ACS Training Officer

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Agenda



- Communications Planning Documents
 - ICS217A – Communications Resource Availability Worksheet
 - ICS205 – Incident Radio Communications Plan
 - ICS204 – Assignment List
- Communications Networks
- Tabletop Exercise



Communications Planning Documents

ICS 217A Communications Resource Availability Worksheet



COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET						Frequency Band	Description		
Channel Configuration	Channel Name/Trunked Radio System Talk group	Eligible Users	RX Freq N or W	RX Tone/NAC	TX Freq N or W	TX Tone/NAC	Mode A, D or M	Remarks	

The convention calls for frequency lists to show four digits after the decimal place, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. Mode refers to either "A" or "D" indicating analog or digital (e.g., Project 25) or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

Purpose. Identifies all the amateur radio repeaters, digipeaters, Winlink RMS Gateways, and simplex frequencies accessible and available for use by PinCo ACS during an activation event.

Master list of all the communications resources that could potentially be used. It is ***not*** a list of the resources that will be used.

Individual worksheets for each RF band and function.

Information needed to establish and maintain communications using the identified repeaters, digipeaters, RMS gateways, and simplex frequencies.

Preparation. The ICS 217A is prepared by the PinCo ACS leadership team prior to any incident.

- 15 Pages
- 107 Entries

Distribution. The ICS 217A is published in Appendix F of the *Pinellas County ACS Emergency Communications Plan and SOP*. It is ***not*** part of the Incident Action Plan.



Communications Planning Documents

ICS 217A Communications Resource Availability Worksheet



COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET						Frequency Band		Description	
						2-Meters 144.0000 - 148.0000		VHF Repeater Systems Accessible from Pinellas Co	
	Channel Configuration	Channel Name/Trunked Radio System Talk group	Eligible Users	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode A, D or M	Remarks
	<u>Lkd Rprr</u> - PACS ³	W4ACS	Amateur	145.1700W	<u>CSQ</u>	144.5700W	156.7	A	Pinellas ACS Primary
	<u>Lkd Rprr</u> - SCD ⁴	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	100.0	A	Shelter Net- St Pete
	<u>Lkd Rprr</u> - SCD	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	103.5	A	Shelter Net- North Co
	<u>Lkd Rprr</u> - SCD	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	156.7	A	Shelter Net Mid County
	<u>Lkd Rprr</u> - SCD	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	82.5	A	Shelter Net East County
	<u>Lkd Rprr</u> - SCD	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	146.2	A	Shelter Net West County
	<u>Lkd Rprr</u> - SCD	WD4SCD	Amateur	147.0300W	<u>CSQ</u>	147.6300W	192.8	A	Shelter Net S Pasadena
	Repeater	KA9RIX	Amateur	145.3900W	<u>CSQ</u>	144.7900W	141.3	A	St. Petersburg
	<u>Lkd Rprr</u> NI4CE ⁵	NI4CE	Amateur	145.4300W	<u>CSQ</u>	144.8300W	100.0	A	WCF ARES®: NI4CE Verna
	Repeater	KE4EMC	Amateur	146.7000W	<u>CSQ</u>	146.1000W	146.2	A	Dunedin
	Repeater	W4ORM	Amateur	146.8500W	<u>CSQ</u>	146.2500W	146.2	M	FM Analog / Fusion

³ The W4ACS Repeater is linked to the UHF Repeater W4ACS listed in TABLE F- IV.

⁴ The WD4SCD Repeater has a single transmitting site and six receiving sites. Each receive site is linked to the transmitting site via a UHF link.

⁵ The NI4CE Repeater is linked to the UHF Repeater NI4CE listed in TABLE F- IV.



Communications Planning Documents

ICS 217A Communications Resource Availability Worksheet



COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET						Frequency Band	Description		
						2-Meters 144.0000 - 148.0000	VHF Repeater Systems Accessible from Pinellas Co		
	Channel Configuration	Channel Name/Trunked Radio System Talk group	Eligible Users	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode A, D or M	Remarks
	Lkd Rptr – <u>JMH⁸</u>	K4JMH	Amateur	146.9700W	CSQ	146.3700W	146.2/ RAN 1	M	FM Analog / <u>NXDN</u>
	Repeater	WA4AKH	Amateur	147.0600W	CSQ	147.6600W	CSQ	A	SPARC NTS™ Traffic Net
	Repeater	W4AFC	Amateur	147.1200W	CSQ	147.7200W	100.0	A	Upper Pinellas Co ARC
	Repeater	WA4GDN	Amateur	146.6700W	CSQ	146.0700W	146.2	A	Inter-County TB Liaison
	Repeater	KN4GVY	Amateur	145.1100N	CSQ	144.5100N	CC 1	D	F-DARN; <u>DMR</u> ; Dunedin

The convention calls for frequency lists to show four digits after the decimal place, followed by either an “N” or a “W”, depending on whether the frequency is narrow or wide band. Mode refers to either “A” or “D” indicating analog or digital (e.g., Project 25) or “M” indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.



Communications Planning Documents

ICS 205 Incident Radio Communications Plan



INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205)

1. Incident Name:		2. Date/Time Prepared: Date: _____ Time: _____		3. Operational Period: Date From: _____ Date To: _____ Time From: _____ Time To: _____						
4. Basic Radio Channel Use:										
Zone Grp.	Ch #	Function	Channel Name/Trunked Radio System Talkgroup	Assignment	RX Freq N or W	RX Tone/NAC	TX Freq N or W	TX Tone/NAC	Mode (A, D, or M)	Remarks
5. Special Instructions:										
6. Prepared by (Communications Unit Leader) Name: _____ Signature: _____										
ICS 205		IAP Page _____		Date/Time: _____						

Purpose. The Incident Radio Communications Plan (ICS 205) provides information on all radio frequency and trunked radio system talkgroup assignments defined for use during an operational period.

Master list of all the communications resources that will be used during the activation event.

Information needed to establish and maintain communications using the identified repeaters, digipeaters, RMS gateways, and simplex frequencies.

Preparation. The ICS 205 is prepared by the PinCo ACS Leadership Team during PinCo ACS Activation Level 2, using the information provided to PinCo ACS by PinCo Emergency Management.

Distribution. Each ICS 205 will be incorporated into the PinCo ACS Incident Action Plan. This plan will be emailed to all deployed ACS communication teams. If necessary, an updated ICS 205 can also be distributed via Winlink. The completed PinCo ACS IAP must be given to the PinCo ACS Admin Officer and a copy stored within WebEOC.



Communications Planning Documents

ICS 205 Incident Radio Communications Plan

INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205)

1. Incident Name: Hurricane Template				2. Date/Time Prepared: Date: 09/23/2023 Time: 0600				3. Operational Period: Date From: 09/23/2023 Date To: 09/23/2023 Time From: 0700 Time To: 1900		
4. Basic Radio Channel Use:										
Zone Grp.	Ch #	Function	Channel Name/Trunked Radio System Talk group	Assignment	RX Freq N or W	RX Tone/NAC	TX Freq N or W	TX Tone/NAC	Mode A, D, M	Remarks
		Command	SARnet – AG4UU	FL Command	442.2500W	CSQ	447.2500W	146.2	A	<i>SARnet – Skyway Bridge</i>
		Cmd / Back-up	SARnet	FL Command	442.8500W	CSQ	447.8500W	146.2	A	<i>SARnet – Tampa</i>
	1	Tactical	W4ACS	Tact-Rsrc	145.1700W	CSQ	144.5700W	156.7	A	<i>PinCo ACS Tactical-Resource Net</i>
	2	Tactical-Bk up	PACS PLAN A	Tact-Rsrc	146.4300W	CSQ	146.4300W	CSQ	A	See Special Instructions Below
	3	Tactical-Bk up	PACS PLAN B	Tact-Rsrc	146.4700W	CSQ	146.4700W	CSQ	A	See Special Instructions Below
	6	Tactical	WD4SCD	ACS Traffic	147.0300W	CSQ	147.6300W	100.0	A	ACS Traffic Net - St Pete
	7	Tactical	WD4SCD	ACS Traffic	147.0300W	CSQ	147.6300W	103.5	A	ACS Traffic Net - North County
	8	Tactical	WD4SCD	ACS Traffic	147.0300W	CSQ	147.6300W	156.7	A	ACS Traffic Net - Mid County
	9	Tactical	WD4SCD	ACS Traffic	147.0300W	CSQ	147.6300W	82.5	A	ACS Traffic Net – East County
	10	Tactical	WD4SCD	ACS Traffic	147.0300W	CSQ	147.6300W	146.2	A	ACS Traffic Net – West County
	11	Tactical	WD4SCD	ACS Traffic	147.0300W	CSQ	147.6300W	192.8	A	ACS Traffic Net – S Pasadena
	21	Tactical Data	W4ACS-10	Local Winlink	145.0900W	CSQ	145.0900W	CSQ	D	VARA FM Wide / 1200 Packet EMCOMM Group
	5*	Tactical	FRS Ch 01	Sltr-Facilities	462.5625W	CSQ	462.5625W	CSQ	A	Shelter: Command & Facilities
		Tactical	EOC A	Coord A	800MHz N				D	See Special Instructions Below
		Command	AUXCOMM HF Net	AUXCOMM State Wide	3.9400	CSQ	3.9400	CSQ	A	LSB; Statewide Emergency Net; Primary: 2000EDT – 0700EDT
		Command Back-up	AUXCOMM HF Net	AUXCOMM State Wide	3.9500	CSQ	3.9500	CSQ	A	LSB; Statewide Emergency Net; Secondary: 2000EDT – 0700EDT



Communications Planning Documents

ICS 205 Incident Radio Communications Plan

21 Entries

1. Incident Name: Hurricane Template				2. Date/Time Prepared: Date: 09/23/2023 Time: 0600				3. Operational Period: Date From: 09/23/2023 Date To: 09/23/2023 Time From: 0700 Time To: 1900			
4. Basic Radio Channel Use:											
Zone Grp.	Ch #	Function	Channel Name/Trunked Radio System Talk group	Assignment	RX Freq N or W	RX Tone/NAC	TX Freq N or W	TX Tone/NAC	Mode A, D, M	Remarks	
		Command	AUXCOMM HF Net	AUXCOMM State Wide	7.2650	CSQ	7.2650	CSQ	A	LSB; Statewide Emergency Net; Primary: 0700EDT – 2000EDT	
		Command Back-up	AUXCOMM HF Net	AUXCOMM State Wide	7.2470	CSQ	7.2470	CSQ	A	LSB; Statewide Emergency Net; Secondary: 0700EDT – 2000EDT	
		Command Back-up	AUXCOMM HF Net	AUXCOMM State Wide	7.2420	CSQ	7.2420	CSQ	A	LSB; Statewide Emergency Net; Tertiary: 0700EDT – 2000EDT	
		Tactical Data	SHARES HF Net	HF Winlink	HF Winlink	CSQ	HF Winlink	CSQ	D	See Special Instructions Below	
		Support	NOAA WX5	Weather	162.4500W	CSQ			A		
5. Special Instructions: <ul style="list-style-type: none"> • PACS PLAN A – Used for county wide simplex net during W4ACS outage. Used for North County net during split county net operation. Refer to Comm plan for details. • PACS PLAN B- Used for South County net during split county net operation. Refer to Comm plan for details. • ACS Comm Team Radio Kit channel numbers are listed in the Ch# column. • The WD4SCD repeater system has six receiver sites. Select the ACS Traffic Net channel number that corresponds to the receiver site closest to your location. • EOC A – Used for coordination between PinCo EOC and county municipalities. • FRS Chan 01 is located at position 5 on the ICOM handheld radios. • Winlink SHARES Address for sending formal message to the state of Florida EOC: NNA4FL • HF Winlink Digital net (Amateur and SHARES) frequencies will be selected by using the HF Channel Selector function of the Winlink Express computer program. Channel selection based on Path Quality and Reliability estimates. All HF Winlink sessions will take place using the Pactor protocol. 											
6. Prepared by (Communications Unit Leader): Name: Clayton Parrott Signature: _____											
ICS 205			IAP Page _8_		Date/Time: 09/23/2023 0600						



Communications Planning Documents

ICS 204 Assignment List



ASSIGNMENT LIST (ICS 204) Adapted for PACS

1. Incident Name: _____		2. Operational Period: Date From: _____ Date To: _____ Time From: _____ Time To: _____		3. Branch: _____ Group: _____ Unit: _____ Staging Area: _____	
4. Operations Personnel: Name _____ Contact Number(s) _____ Communications Unit Lead: _____ Pinellas ACS Group Supervisor: _____ Pinellas ACS Unit Leader: _____					
5. Resources Assigned:		# of Persons	Contact (e.g., phone, pager, radio frequency, etc.)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information	
Resource Identifier	Leader				
6. Work Assignments: 					
7. Special Instructions: 					
8. Communications (radio and/or phone contact numbers needed for this assignment): Name/Function _____ Primary Contact: indicate cell, pager, or radio (frequency/system/channel) _____ 					
9. Prepared by: Name: _____ Position/Title: _____ Signature: _____ ICS 204 IAP Page _____ Date/Time: _____					

Purpose. The Assignment List (ICS 204) is a standard NIMS ICS form that is used by PinCo ACS to document the work assigned to each PinCo ACS communication team. It is also used to identify safety problems that the team should address during deployment and contains the information needed to establish and maintain RF communications with the PinCo EOC.

Preparation. The ICS 204 is prepared by the PinCo ACS Leadership Team during PinCo ACS Activation Level 2, using the information provided to PinCo ACS by PinCo Emergency Management.

Distribution. Each ICS 204 will be incorporated into the PinCo ACS Incident Action Plan. This plan will be emailed to all deployed ACS communication teams. If necessary, an updated ICS 204 can also be distributed via Winlink. The completed PinCo ACS IAP must be given to the PinCo ACS Admin Officer and a copy stored within WebEOC.

Form updated for Pinellas ACS



Communications Planning Documents

ICS 204 Assignment List – EOC Radio Room

8. Communications (radio and/or phone contact numbers needed for this assignment):

- Deployed ACS resources will notify the EOC via the **ACS Tactical-Resource net** when transiting between locations. Each resource will notify the EOC upon departure and arrival.
- Winlink Digital net will use the W4ACS-10 VHF RMS gateway. This gateway is a member of the Winlink EMCOMM group and is configured to support 1200 baud Packet and VARA FM.
- HF Winlink Digital net (Amateur and SHARES) frequencies will be selected by using the HF Channel Selector function of the Winlink Express computer program. Channel selection based on Path Quality and Reliability estimates. All HF Winlink sessions will take place using the **Pactor** protocol.
- State of Florida EOC SHARES Call Sign – **NNA4FL**

13 Entries

Name/Function	Primary Contact: indicate cell, pager, or radio (frequency/system/channel)
ACS Tactical-Resource Net / Tactical	FTM-400 Channel 01 – W4ACS Repeater
ACS Tactical-Resource Net / Back-up	FTM-400 Channel 03 – PACS PLAN A – 146.4300MHz Simplex
ACS Traffic Net / Tactical	FTM-400 Channel 09 – WD4SCD Repeater – West County
FL Command Net / Command	FTM-400 Channel 48 – SARnet Repeater – Skyway Bridge
FL Command Net / Back-up	FTM-400 Channel 49 – SARnet Repeater – Tampa
VHF Winlink Data Net / Tactical	145.0900MHz.
FL Statewide HF Net (Night) / Command	IC-7300 Channel 14 – 3.9400MHz LSB – Primary – (2000ET – 0700ET)
FL Statewide HF Net (Night) / Back-up	IC-7300 Channel 15 – 3.9500MHz LSB – Secondary – (2000ET – 0700ET)
FL Statewide HF Net (Day) / Command	IC-7300 Channel 18 – 7.2650MHz LSB – Primary – (0700ET – 2000ET)
FL Statewide HF Net (Day) / Backup	IC-7300 Channel 17 – 7.2470MHz LSB – Secondary – (0700ET – 2000ET)
FL Statewide HF Net (Day) / Backup	IC-7300 Channel 16 – 7.2420MHz LSB – Tertiary – (0700ET – 2000ET)
HF Winlink Data Nets / Tactical	HF frequencies as recommended by Winlink Express
NOAA Weather Radio / Support	FTM-400 Channel 85 – WX5 – 162.450MHz

9. Prepared by: Name: Michael H Drake____ Position/Title: PinCo ACS Training_ Signature: *Michael H Drake*____

ICS 204

IAP Page 2____

Date/Time: 09/23/2023 0630____

Updated by PinCo ACS September 2023



Communications Planning Documents

ICS 204 Assignment List – Evac Shelter Central County



6 Entries

8. Communications (radio and/or phone contact numbers needed for this assignment):

- Between 2200 and 0700 each day, shelter operators will monitor the **ACS Tactical-Resource net**.
- Winlink Digital net will use the W4ACS-10 VHF RMS gateway. This gateway is a member of the Winlink EMCOMM group and is configured to support 1200 baud Packet and VARA FM.

Name/Function	Primary Contact: indicate cell, pager, or radio (frequency/system/channel)
ACS Tactical-Resource Net / Tactical	ACS Radio Kit Channel 01 – (W4ACS Repeater)
ACS Tactical-Resource Net / Back-up	ACS Radio Kit Channel 02 – (PACS PLAN A – 146.4300MHz Simplex)
ACS Tactical Resource Net / Back-up	ACS Radio Kit Channel 03 – (PACS PLAN B – 146.4700MHz Simplex)
ACS Traffic Net / Tactical	ACS Radio Kit Channel 10 – (WD4SCD Repeater – West County)
ACS Traffic Net / Back-up	ACS Radio Kit Channel 08 – (WD4SCD Repeater – Central County)
VHF Winlink Data Net / Tactical	ACS Radio Kit Channel 21 – (W4ACS-10 VHF RMS gateway 145.0900MHz.)

9. Prepared by: Name: Michael H Drake Position/Title: PinCo ACS Training Signature: Michael H Drake

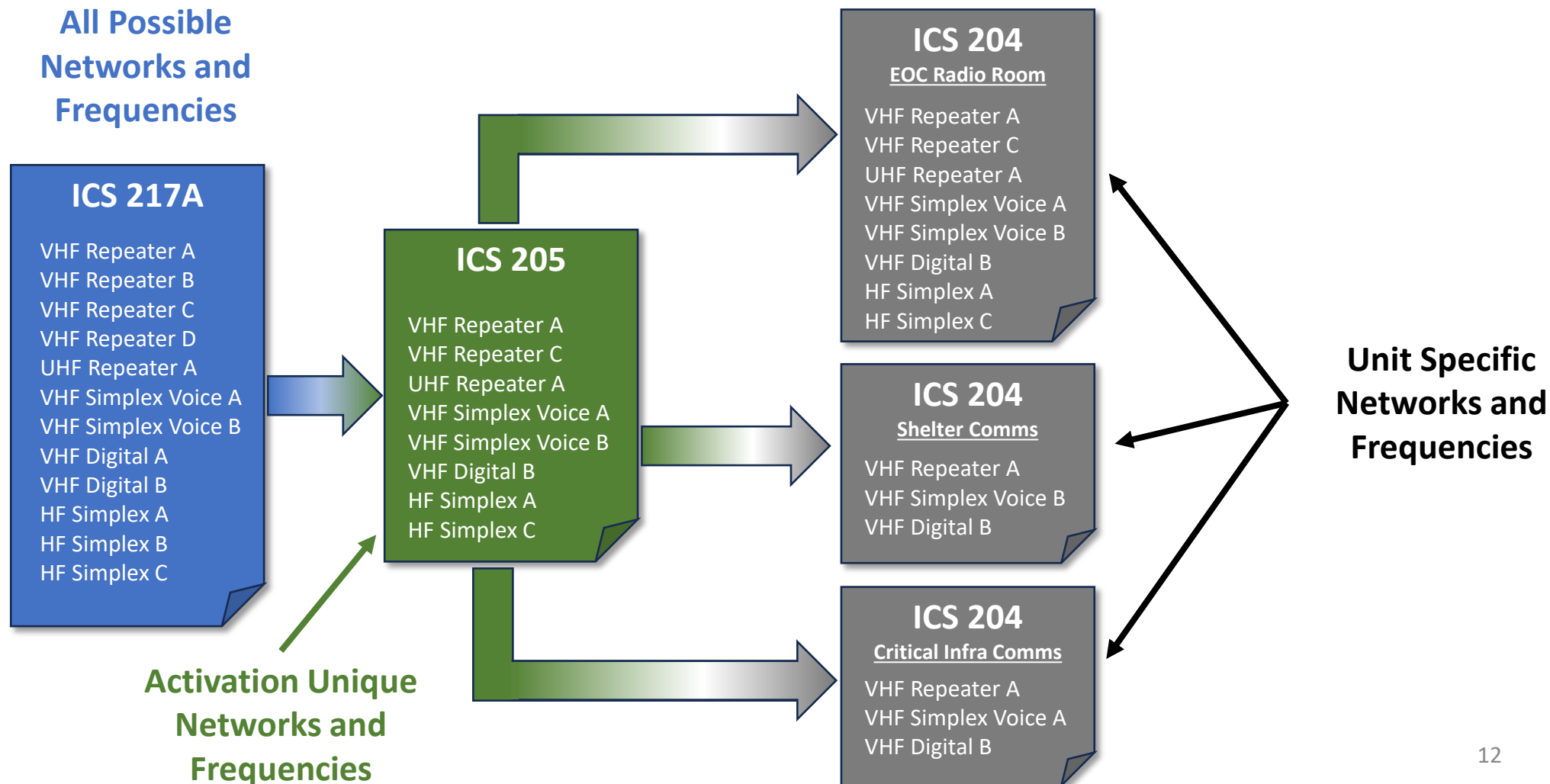
ICS 204 IAP Page 4 Date/Time: 09/23/2023 0630

Updated by PinCo ACS September 2023



Communications Planning Documents

Documentation – Summary





Agenda



- Communications Planning Documents
 - ICS217A – Communications Resource Availability Worksheet
 - ICS205 – Incident Radio Communications Plan
 - ICS204 – Assignment List
- Communications Networks
- Tabletop Exercise



PinCo ACS Communications Networks

Communication Nets



- ACS Tactical-Resource Net
- ACS Traffic Net
- ARES® VHF Traffic Net
- Winlink Digital Data Net
- Statewide Amateur Radio Network (SARnet)
- Florida Statewide HF Emergency Net
- SHARES Coordination Net
- Hurricane Watch Net
- SKYWARN® Net



PinCo ACS Communications Networks

Communication Channels



- Functional Requirements
 - PinCo Tactical/Resource Management (Voice)
 - SKYWARN® (Voice)
 - Health and Welfare traffic – out of region (Voice)
- EOC Connectivity Requirements
 - PinCo Evacuation Shelters (Voice and Data)
 - PinCo Critical Infrastructure Sites (Voice and Data)
 - Municipal EOCs, Hospitals, Fire Stations, etc.
 - State of Florida EOC (Voice and Data)
 - Regional EOCs (Voice and Data)



Agenda



- Communications Planning Documents
 - ICS217A – Communications Resource Availability Worksheet
 - ICS205 – Incident Radio Communications Plan
 - ICS204 – Assignment List
- Communications Networks
- Tabletop Exercise



Incident Communications Planning

Tabletop Exercise – Run Rules



- Team will be presented three incidents
- For each incident –
 - Identify the communications channels required for each Incident
 - For each, discuss why or why not required
 - Assign primary and secondary (Back-up) communication resources to each comm channel
 - If a required resource is not listed, then we can create it...
- No right or wrong answer

The logo is a circular emblem with a red outer ring containing the text "EMERGENCY COMMUNICATIONS" at the top and "RADIO AMATEUR OPERATIONS" at the bottom, separated by two stars. The inner blue circle features a satellite, a laptop, a radio tower, and a satellite dish, all connected by yellow lightning bolts representing radio waves. The acronym "A.C.S." is prominently displayed in yellow at the bottom of the inner circle.

Tabletop Exercise

Incident 1 – Localized Emergency

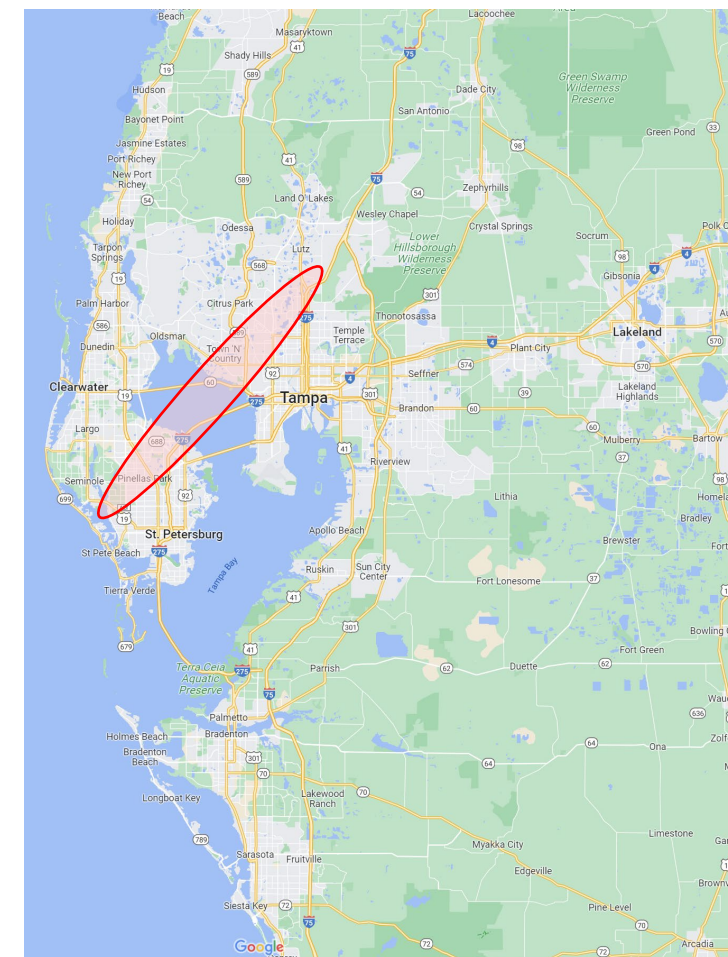


Incident Communications Planning

Localized Emergency



- Tornado – Strong EF-3
 - Watch and Warning Issued before event
 - Pinellas and Hillsborough Counties Impacted
 - Localized Impact to services
 - Cell service spotty at best in central Pinellas
 - Land-line service Inoperative within impacted area
 - Localized power outages
 - Small number of PinCo Evacuation Shelters open





Incident Communications Planning

Localized Internet - Land Line - Cell Outage



Local Resource Management

Primary Voice
Secondary Voice

PinCo EOC – Critical Infra

Primary Voice	Secondary Voice
Primary Data	Secondary Data

PinCo EOC – State EOC

Primary Voice	Secondary Voice
Primary Data	Secondary Data

Health-Welfare

Primary Voice	Secondary Voice
Primary Data	Secondary Data

PinCo EOC – Regional EOCs

Primary Voice	Secondary Voice
Primary Data	Secondary Data

PinCo EOC – Shelter

Primary Voice	Secondary Voice
Primary Data	Secondary Data

SKYWARN®

Primary Voice
Secondary Voice

COMMUNICATIONS RESOURCES

Phone/Cell	UHF Repeater NI4CE	HF Florida Emergency Net
Internet E-mail	UHF Repeater SARnet	HF WCF ARES Net
WebEOC	VHF Repeater WA4AKH	VHF RMS Winlink
800Mhz County Sys	UHF Repeater KN4GVY F-DARN	HF RMS Winlink
VHF Repeater W4ACS	VHF/UHF Simplex	HF Hybrid Winlink
VHF Repeater WD4SCD	SHARES Coord Net	SHARES Winlink



Tabletop Exercise

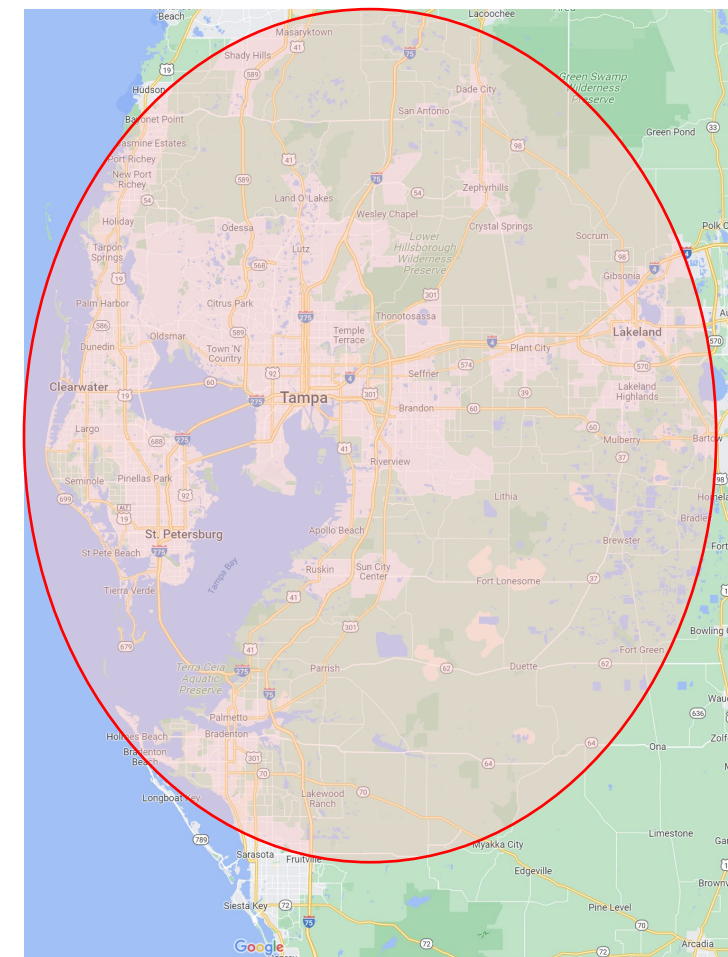
Incident 2 – Major Hurricane



Incident Communications Planning Regional Emergency



- Major Hurricane Landfall in Southern Pasco County
 - Pinellas, Pasco, Hillsborough, and Manatee Counties
 - Internet Inoperative
 - Cell service Inoperative
 - Land-line service Inoperative
 - Widespread Power Outages
 - Numerous PinCo Evacuation Shelters Open
 - PinCo Command Runners Deployed to several Critical Infrastructure sites





Incident Communications Planning

Local/Regional Internet - Land Line - Cell Outage



Local Resource Management

Primary Voice
Secondary Voice

Health-Welfare

Primary Voice	Secondary Voice
Primary Data	Secondary Data

SKYWARN®

Primary Voice
Secondary Voice

PinCo EOC – Critical Infra

Primary Voice	Secondary Voice
Primary Data	Secondary Data

PinCo EOC – Regional EOCs

Primary Voice	Secondary Voice
Primary Data	Secondary Data

PinCo EOC – State EOC

Primary Voice	Secondary Voice
Primary Data	Secondary Data

PinCo EOC – Shelter

Primary Voice	Secondary Voice
Primary Data	Secondary Data

COMMUNICATIONS RESOURCES

Phone/Cell	UHF Repeater NI4CE	HF Florida Emergency Net
Internet E-mail	UHF Repeater SARnet	HF WCF ARES Net
WebEOC	VHF Repeater WA4AKH	VHF RMS Winlink
800Mhz County Sys	UHF Repeater KN4GVY F-DARN	HF RMS Winlink
VHF Repeater W4ACS	VHF/UHF Simplex	HF Hybrid Winlink
VHF Repeater WD4SCD	SHARES Coord Net	SHARES Winlink

The logo is a circular emblem with a red outer ring containing the text "EMERGENCY COMMUNICATIONS" at the top and "RADIO AMATEUR OPERATIONS" at the bottom, separated by two stars. The inner blue circle features a satellite, a laptop, a radio tower, and a satellite dish, all connected by yellow lightning bolts representing radio waves. The acronym "A.C.S." is prominently displayed in yellow at the bottom of the inner circle.

Tabletop Exercise

Incident 3 – Nationwide Cyber Attack



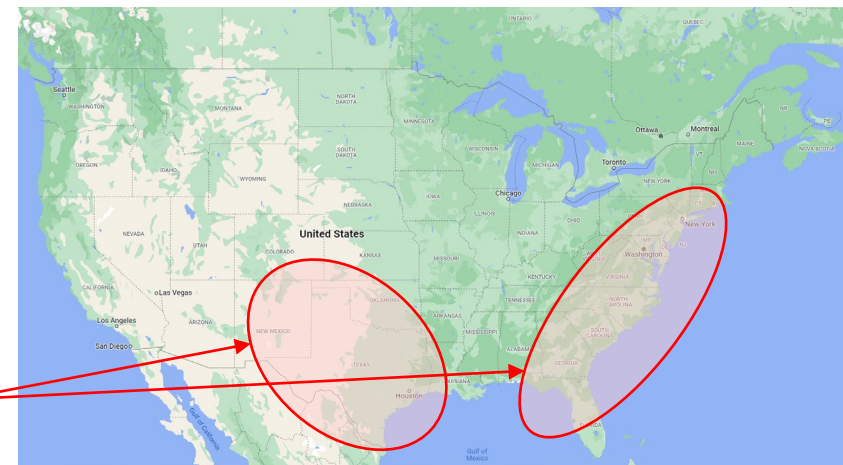
Incident Communications Planning

Regional/National Emergency



- Nationwide Cyber Attack – August
 - Internet Inoperative - Nationwide
 - Cell service Inoperative
 - Land-line service unavailable in Florida
 - Power grid inoperative in Texas and areas of Eastern US
 - Numerous Shelters opened as cooling centers due to widespread power outages

Power Outages





Incident Communications Planning

National Internet - Land Line - Cell Outage



Local Resource Management

Primary Voice
Secondary Voice

Health-Welfare

Primary Voice	Secondary Voice
Primary Data	Secondary Data

SKYWARN®

Primary Voice
Secondary Voice

PinCo EOC – Critical Infra

Primary Voice	Secondary Voice
Primary Data	Secondary Data

PinCo EOC – Regional EOCs

Primary Voice	Secondary Voice
Primary Data	Secondary Data

PinCo EOC – State EOC

Primary Voice	Secondary Voice
Primary Data	Secondary Data

PinCo EOC – Shelter

Primary Voice	Secondary Voice
Primary Data	Secondary Data

COMMUNICATIONS RESOURCES

Phone/Cell	UHF Repeater NI4CE	HF Florida Emergency Net
Internet E-mail	UHF Repeater SARnet	HF WCF ARES Net
WebEOC	VHF Repeater WA4AKH	VHF RMS Winlink
800Mhz County Sys	UHF Repeater KN4GVY F-DARN	HF RMS Winlink
VHF Repeater W4ACS	VHF/UHF Simplex	HF Hybrid Winlink
VHF Repeater WD4SCD	SHARES Coord Net	SHARES Winlink