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# Fundamentals of Emergency Communications



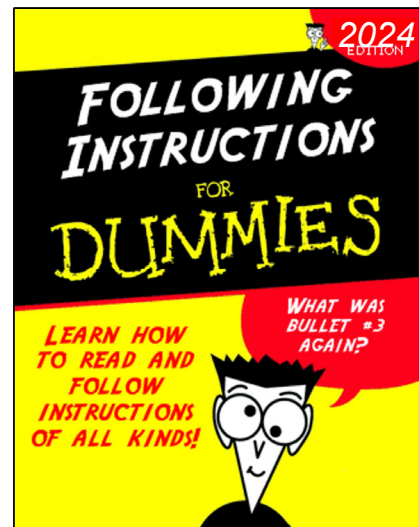
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Last Updated: Oct 24, 2024

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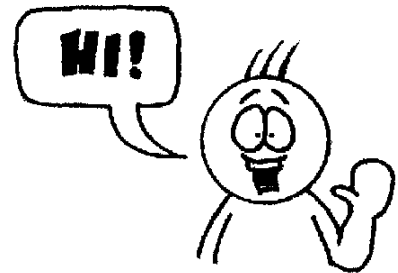
## Housekeeping

- Introductions
- Pen/pencil & paper
- Cell phones on silent or vibrate
- Side conversations
- Questions
- Breaks
- Restrooms
- In case of emergency
- No wandering or exploring other areas of the building.
- Assign a Tactical Call



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## Introductions



- First Name
- City where you live
- Did you attend the “Introduction to Emergency Communications” class *or did you review the slides*
- FCC Call Sign

## Learning Objectives



- At the end of this class, you will be able to
  - Describe the Disaster Service Worker program, including your responsibilities as a participant
  - Describe the purpose and appropriate usage of the main Santa Clara County ARES/RACES nets
  - Properly submit a Mike-Mike report
  - Describe and execute the proper procedures for mobilization, tracking, and demobilization, including the use of the Resource Net
  - Understand how to use an ICS-205 to program your radio
  - Properly complete an ICS 214 Unit Activity Log Form
  - Properly complete an ICS 213 Message Form

## Today's Agenda

- Disaster Service Worker
- Santa Clara County Nets
- Mobilization, Tracking, Demobilization
- Logging
- Message Handling
- Additional Training
- Credentialing Program
- Mutual Aid Communicator (MAC) Endorsement
- Action Items

# Fictitious Call Signs

Examples used in this class make use of fictitious call signs:

- W6XRL4: Herman Munster
  - Character in a 1960 TV show
  - We will treat it like a real FCC call sign, even though it doesn't have the correct format
- XNDEOC: City of Xanadu Emergency Operations Ctr
  - We will treat it like a real tactical call sign





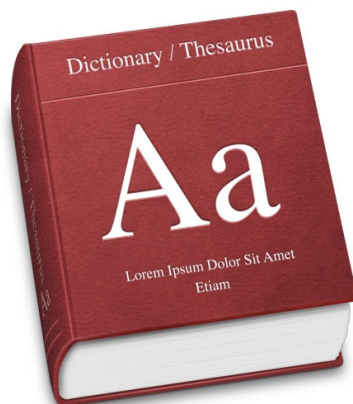
Registration and Rules

# DISASTER SERVICE WORKER



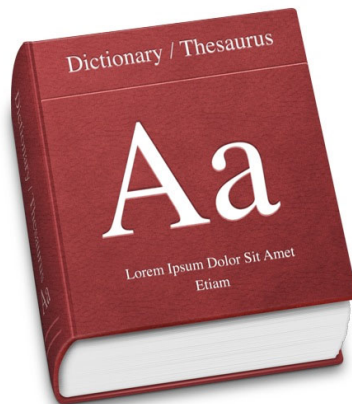
## What is Disaster Service?

- All activities authorized by and carried on pursuant to the California Emergency Services Act, including approved and documented training necessary or proper to engage in disaster activities.



## What is a Disaster Service Worker?

*“... any natural person registered by an accredited Disaster Council ... for the purpose of engaging in disaster service ... without pay or other consideration.”*



## What's in it for me?

- Workers Compensation coverage by State Compensation Insurance Fund
  - ... but it's not a windfall; have your own insurance
- Limited liability protection when acting within scope of assignment and training
  - ... but we're not lawyers and this is not legal advice
- Many activities require it in order to participate
- See DSW brochure at:

<https://www.scc-ares-races.org/dsw/index.shtml>

## When am I covered as a DSW?

- When **registered**
- ... and when **activated**
- and **assigned by an accredited authority**
- ... and while performing your duties
  - ... according to an approved **training** plan
  - ... while under **supervision**
- Travel to and from a drill is not covered, but it is for a real activation.

## The 5 Elements of Disaster Service Activation

- Registration
- Training and Preparation
- Activation
- Assignment
- Supervision

## Registration



- Only an “authorized person” may register you
  - For county: Office of Emergency Management (OEM) official
  - For city: Appropriate city officials (ask your EC who/how)
- You must have a current DSW registration on file with the entity that is activating you
  - County DSW required for county drills and events
  - City DSW required for local city activities
- DSW registration does not expire, but the Cards do!
- Personal information must be verified every 2 years
  - Address, phone numbers, etc.
  - <https://www.scc-ares-races.org/activities> > My Contact Info

## The Two Most Common Questions

- *I registered for DSW with a different organization (CERT, animal rescue, fire, ...). Does that cover me with your group?*
  - No. You must be registered with the proper classification. In our case: “Communications”
- *I registered for DSW in a different jurisdiction. Does that cover me with your group?*
  - No. Only the jurisdiction that registered you can activate you. (County DSWs can be activated by the county and assigned to a local jurisdiction for mutual aid support.)

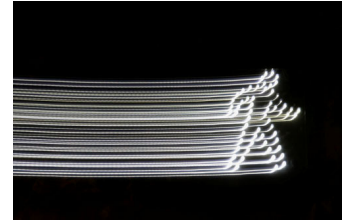
## Training



- Everyone is responsible for their own training
- Santa Clara County ARES/RACES:
  - <http://www.scc-ares-races.org> (procedures, forms, ...)
  - Training courses, drills, public service events
  - Credentialing Program
    - Earn qualifications in various disciplines, at various levels
- City training programs also available
  - Usually focus on city-specific procedures and capabilities
- Incident Command System (ICS) training - FEMA
  - Standardized, on-scene, all-hazards incident management approach
- Other training – Red Cross, CERT, etc.

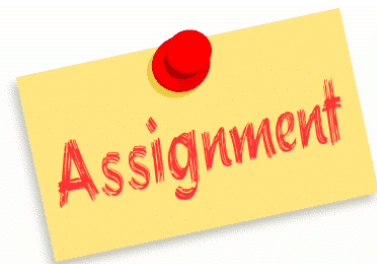


## Activation



- Only an entity with whom you are registered may activate you
  - In California DSW program, county and city registrations are separate
  - City will activate you for city events
    - You must be registered with the city
  - County will activate you for county events and mutual aid situations
    - You must be registered with the county
- An “Activation Number” will be issued
  - Example county activation number: XSC-20-06
  - Example city training activation number: MTV-21-01T
- Write it down!
  - Consider it your confirmation number that you were properly activated under DSW rules

## Assignment



- Usually, assignment is made by radio
  - On Resource Net (county)
  - On city net (city)
- Location will be given by common name, address  
e.g., Mountain View Fire Station 4; 229 N. Whisman Rd.
- Write it down!
- Have an off-line map available at all times!  
“Google Maps” or “Here WeGo”  
Must be stored on your device and usable with no Internet
- Standard shifts are 8 hours
  - Be prepared for 12 hours
  - Go Kit: batteries, connectors, food, water, clothing, essentials
  - For full go kit contents: <https://www.scc-ares-races.org>

## Supervision



- You must be under continuous supervision while on your assignment
  - You must be reachable by radio at all times
  - You must have a radio that can be operated with reasonable range while you are in your car, traveling to and from your destination
- Get a magnetic mount antenna and headset!
- Know which repeaters to use from which locations
  - In particular, travel to Southern part of county requires switching repeaters and bands

## Your To Do List (so far)



- Become familiar with: <https://www.scc-ares-races.org>
  - At a minimum, review everything on the Operations page
- Obtain County and City DSW registration
- Inform family of Workers' Comp provisions

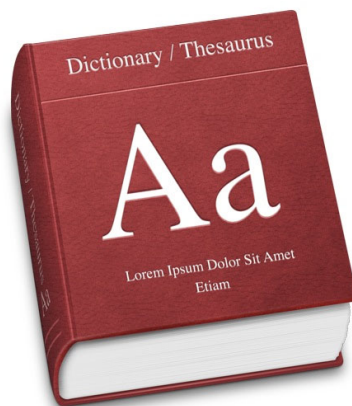


# SANTA CLARA COUNTY ARES/RACES NETS

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## What is an Amateur Radio Net?

- An Amateur Radio Net exists whenever 3 or more operators are in simultaneous contact with each other for the purpose of exchanging information or passing operational or official (3<sup>rd</sup> Party) traffic.



## Types of Nets

- Open Net
  - Stations call each other directly to pass traffic
- Directed Net
  - Stations call only net control directly; they go direct to other stations only with net control permission

## Santa Clara County Primary Amateur Radio Emergency Nets

- Resource Net
  - Usually the first county net activated
  - Official traffic; type of traffic depends on level of operation
- Message Net
  - Usually the second county net activated
  - Official message traffic for served agencies
- City and Tactical Nets
  - Official and unofficial traffic of a local nature
- Command Net
  - Official traffic between Operational Area (county) command staff, and agency or city Emergency Operations Centers (EOCs) command staff
- Hospital Net
  - Official traffic between Dept. of Public Health and hospitals



# Frequency List

- Keep an up-to-date copy
  - County frequency list
  - Any additional frequency list(s) for your city
- Program your radio
  - Your city’s frequencies
  - County frequencies
    - at least the Resource Net frequencies

**SCC ARES/RACES Voice Frequency List**

This list updated by Mark Laubach, K6FJC, SCCo ADEC, K6FJC@artlist  
Items in red indicate changes made since 16-May-2022.  
Notes, Definitions, Shared Frequency Summary, Experimental (Chip File(s))  
Excel Version

List last updated: 25-Aug-24

COUNTY										Reviewed: 07-Jun-24
Operational Area	Channel Name	Resource Name	R/S	Frequency	OS	PL	Notes	Updated		
County	Message Net	WBTI	R	147.360	*	110.9		11-Feb-11		
County	Message Net Alt (Linked)	KQFB	R	145.450	-	100	H	28-Jun-12		
County	Message Net Alt (Linked)	KQFB	R	442.575	*	100	H	28-Jun-12		
County	Command	WRGOF	R	442.500	*	100		16-May-16		
County	Resource, Primary	AAABT	R	146.115	*	100	D	11-Feb-11		
County	Resource, North	WBASH	R	145.270	-	100	E	11-Feb-11		
County	Resource Alt, North	WBASH	R	440.800	*	100	E	11-Jul-17		
County	Resource, South	KOSNY	R	443.275	*	107.2	G, T	25-Aug-24		
County	Hospital Net	HNH1	R	145.230	-	100		11-Feb-11		
County	NTS	WRGABD	R	146.840	-	162.2		11-Feb-11		
220 Simplex: 223.40										
440 Simplex: 441.000, 446.500, 446.000 (National Simplex Frequency)										
RED CROSS, SILICON VALLEY CHAPTER										Reviewed: pending
Operational Area	Channel Name	Resource Name	R/S	Frequency	OS	PL	Notes	Updated		
Red Cross SVC	Command	W7AFG	R	444.300	*	173.8		11-Feb-11		
Red Cross SVC	Command Alt	WB6QGS	R	444.600	*	141.3		11-Feb-11		
Red Cross SVC	Tactical 1	K9P7EC	R	147.165	*	162.2		11-Feb-11		
Red Cross SVC	Tactical 2	W6ALEE	R	147.875	-	162.2		23-Nov-22		
Red Cross SVC	Tactical Alt	WB6QGS	R	146.760	-	151.4		11-Feb-11		
Red Cross SVC	link	WB6QGS	R	224.260	-	100		11-Feb-11		
Red Cross SVC	Talk Around	WB6RNH	R	444.300	*	162.2		11-Feb-11		
Red Cross - All	All Areas	Simplex	S	147.420				11-Feb-11		
CAMPBELL										Reviewed: 17-May-24
Operational Area	Channel Name	Resource Name	R/S	Frequency	OS	PL	Notes	Updated		
Campbell	Tactical 1	Simplex	S	146.565				18-May-24		
Campbell	Tactical 2	NO1PC	R	442.175	*	100		16-May-24		
Campbell	Tactical 3	Simplex	S	147.585			C	16-May-24		
CUPERTINO										Reviewed: pending
Operational Area	Channel Name	Resource Name	R/S	Frequency	OS	PL	Notes	Updated		
Cupertino	Resource Net Alt (TAC1)	Simplex	S	147.570		151.4	2	11-Feb-11		
Cupertino	Message Net (TAC2)	Simplex	S	146.460		100		11-Feb-11		
Cupertino	Resource Net (TAC3)	W6TDM	R	440.150	*	100		11-Feb-11		
Cupertino	Resource Net Direct (TAC4)	Simplex	S	440.150		100		11-Feb-21		
Cupertino	General Field (TAC5)	Simplex	S	441.000		151.4	R	9-Oct-17		
Cupertino	General Field (TAC6)	Simplex	S	147.585		151.4		21-Nov-21		
Cupertino	Command Net (TAC7)	WWHP	R	442.000	*	151.4		21-Nov-21		
Cupertino	Command Net (TAC8)	Simplex	S	442.000		151.4		21-Nov-21		
GILROY										Reviewed: pending
Operational Area	Channel Name	Resource Name	R/S	Frequency	OS	PL	Notes	Updated		
Gilroy	Tactical-1	Simplex	S	147.480				11-Feb-11		
Gilroy	Tactical-2	Simplex	S	146.445				11-Feb-11		
Gilroy	Tactical-CERT	Simplex	S	146.595				11-Feb-11		
LOMA PRIETA										Reviewed: pending

<https://www.scc-ares-races.org/operations.shtml>

## Resource Net

- Usually the first net activated at the county level
- Directed net
- Three levels of operation
  - Level 1: Information gathering (initial damage reports)
    - Earthquake Modified Mercalli (“Mike-Mike”) reports; flood levels; power; etc.
  - Level 2: City EOC check-ins and referral to city tactical nets
    - City EOCs check-in and announce status; individuals referred to city nets
  - Level 3: Coordination of mutual aid; tracking county resources
    - Mobilization (resource check-ins, activations and assignments)
    - Location/Travel tracking (you MUST be in contact while traveling)
    - Demobilization (resource release, tracking during return home)
- Frequencies (<http://www.scc-ares-races.org/operations.shtml>)
  - Primary    AA6BT    146.115 (+) 100.0
  - North      W6ASH    145.270 (-) 100.0
  - South      K6SNY    443.275 (+) 107.2 (South of 101 & 85; South San Jose)

## Message Net

- Usually the second net activated at the county level
- Directed net
- Official message traffic for served agencies
  - Typically: cities to/from county; agencies to/from county
  - 3<sup>rd</sup> Party messages (for others, usually non-hams)
    - Official Message Forms (I.E., ICS 213-SCCo)
    - All messages and responses numbered and tracked
  - Operational messages (operator to operator)
    - “Los Altos EOC is checking in ..., the creek is at 12’...”
- Frequencies (<https://www.scc-ares-races.org>)
  - Primary W6TI 147.360 (+) 110.9
  - Alternate K6FB 145.450 (-) 100.0

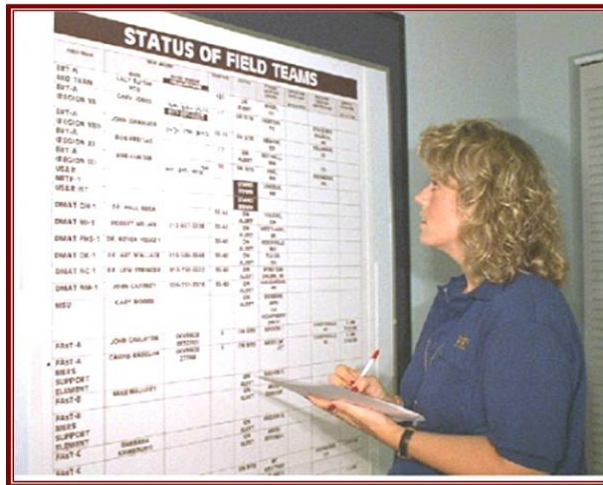
## Tactical Nets

- Usually a directed net, but may start up as an open informal net
- Established when and where needed
  - Staging areas, checkpoints, rovers, shadows
  - Each city has one or more tactical frequencies; one is for main city net
- Each city activates their city net as soon as possible
  - Handle local resource check-ins, notifications
  - Check-in here first if you want to be released to the county
- Localized, often informal messages
  - “checkpoint 3 reports Dead Man’s creek at 1 foot below flood level ...”
  - “rover 2 reports all runners have now passed rest stop 4 ...”
- May also include 3<sup>rd</sup> party messages
  - Resource request from school or shelter to city
- Frequencies (<https://www.scc-ares-races.org/operations.shtml>)
  - May also be assigned at time of activation

## Your To Do List (so far)



- Become familiar with: <https://www.scc-ares-races.org>
  - At a minimum, review everything on the Operations page
- County and City DSW registration
- Inform family of Workers' Comp provisions
- Learn the nets and their usage
- Obtain Frequency lists (county, city); program your radio



The County Resource Net in Action

# ALERTING, MOBILIZATION, TRACKING, DEMOBILIZATION

## Alerting vs Activation

- Alerting
  - You are alerted when you become aware of a situation where Amateur Radio support may be requested
  - You can monitor your radio and check into a net
  - You are not authorized to do anything or go anywhere unless the served agency has pre-authorized your role
- Activation
  - A government entity has requested Amateur Radio support
  - An activation number is provided to you along with a job assignment
  - You accept the assignment

## Alerting Types




- Self alerting
  - Earthquakes (you can feel them)
  - Floods (you can see them)
  - Other situations where you know there's a problem
- Non-self alerting
  - Hazardous material spills
  - Local infrastructure failure
  - Other situations where you don't know a problem has occurred until someone alerts you
- Some situations are both
  - April 2009 partial county telecom outage – some were not affected, unaware; some were affected but only became aware when they were contacted or tried to use a telephone.
- Either way, once you learn of an incident, go to the Resource Net (or to your city's net if that's the procedure for your city.)



## Alerting Methods for Non-Self Alerting Events

- AlertSCC – phone call, SMS text message, or e-mail with instructions
  - Important to keep contact information updated
  - AlertSCC is updated from the SCCo ARES/RACES database
- Voice telephone call from someone
- Someone knocking on your door (unlikely but possible)
- You happen to hear traffic on the Resource Net or your city net
- Again, once you learn of an incident, go to the Resource Net (or to your city net if that's the procedure for your city.)
- If your city net is not active, go to the Resource Net.

### Menu

- My Profile**
- [My Contact Info](#) 
- [My Equipment](#)
- [My Activity Record](#)
- [My Completion Certificates](#)
- [My Credentials](#)
- [My Credential-Qualifying Events](#)
- [Cities/Agencies I Support](#)
- [Change My Call Sign](#)
- [Change My Password](#)

### My Contact Information

#### Personal Information

Call Sign\*

First Name\*

Last Name\*

Address 1\*

Address 2

City\*

State\*

Zip\*

#### Emergency Contact Information

Emergency contact\*

Contact number\*

#### Supported Agencies

You are on the rosters of these agencies:  
None

**My Primary Agency**  
None

If you are on multiple rosters, "Primary Agency" is the agency that you will most likely respond to first in case of a wide-spread incident.

\* denotes required field

#### Contact Information

Home Phone#

Work Phone#

Cell Phone#

Pager

e-mail #1 \*

e-mail #2

\* denotes required field  
# at least one number is required

#### AlertSCC Information

(format for phone & SMS numbers:  
999-999-9999)

Phone #1 :

Phone #2 :

Phone #3 :

e-mail #1 :

e-mail #2 :

e-mail #3 :

SMS #1\*\* :

SMS #2\*\* :

\*\* SMS stands for Short Messaging Service which is synonymous with text messaging.

**Note:** These entries are prioritized. Put your primary information as #1, your second as #2, etc.

If you have a County DSW you may be contacted during an activation via these methods.

You last reviewed this information on: 10/04/2022

I have reviewed the information on this page

**BREAK**

## Resource Net – Level 1



- Purpose: Damage reports during initial stages of an incident
- Trigger: Being alerted to a problem
- First, make sure everything is okay at home
- Tune to a Resource Net repeater
  - Primary AA6BT 146.115 (+) 100.0 (preferred, if you can reach it)
  - North W6ASH 145.270 (-) 100.0
  - South K6SNY 443.275 (+) 107.2 (best for South of 101 & 85 in S. San Jose)  
(also near East side hills)
- Resource Net Level 1 operations
  - Net Control will be asking for damage reports, flood levels or other info
  - Respond with your call sign
  - When called, respond with call sign, city, report, call sign; use a minimum of words
  - Example using Modified Mercalli scale for an earthquake:  
“W6XRL4, Xanadu, Mike-Mike-4, W6XRL4”
- Monitor to determine if further escalation will occur

## Example of Resource Net Level 1: Earthquake Damage Reports



- Use the Modified Mercalli (“MIKE-MIKE”) scale
  - Mike-Mike 1 – Not felt at all
  - Mike-Mike 2 – Felt by persons at rest, especially on upper floors
  - Mike-Mike 3 – Felt indoors, objects swing; like light truck passing
  - Mike-Mike 4 – Windows, dishes rattle; standing cars rock; walls creak
  - Mike-Mike 5 – Felt outdoors; liquids disturbed/spilled; pictures move; doors swing; small items displaced
  - Mike-Mike 6 – Windows, dishes, glassware broken; books off shelf; pictures off walls; furniture, lamps moved/toppled
  - Mike-Mike 7 – Difficult to stand; noticed by drivers of cars; waves on ponds; furniture broken; chimneys, plaster falls
  - Mike-Mike 8 – Steering of cars affected; damage to masonry; towers & elevated tanks fall; branches broken; frame houses move
- Typical response: call sign, city, mike-mike #, call sign
- Keep a wallet card handy <https://www.scc-ares-races.org/operations.shtml>

## Resource Net – Level 1 – Example

- May 5, 2012 County Drill - Simulated Earthquake
- Objective: Practice Level 1 and Level 2 Resource Net
- Individuals call in their simulated Mike-Mike reports
- Net control keeps tally by city
- The net started like this ...



## Who Will Be The Net Control??



- It could be you!!
- Come up on the Resource Net
- Listen for active stations
- If no net currently exists, announce that you are organizing a net to collect damage information
- Inform that you have no ability to dispatch help
- Take gross reports of damage until relieved
  - Earthquakes: use the Modified Mercalli (“MIKE-MIKE”) Scale (1-8)
- Be prepared to pass summary information to a more experienced Net Control operator

# Mike-Mike Report Summary Form - Example

SCCo ARES/RACES Mike-Mike Summary		1. Incident Name (if any): <i>Classroom Exercise</i>						2. Incident Date / Time: <i>Today's Auto Time</i>								
3. City	4. Mike-Mike Tally (use tick/tally marks)								5. Reporting Totals (numerical)							
	MM-1	MM-2	MM-3	MM-4	MM-5	MM-6	MM-7	MM-8	MM1-3	MM4	MM5	MM6	MM7	MM8		
Campbell					//	<del>///</del>	//	/			2	5	2	1		
Cupertino						///	<del>///</del>	//				3	5	2		
Gilroy					///		////				3		4			
Loma Prieta																
Los Altos						//	//	/				2	2	1		
Los Altos Hills					/	///	///	/			5	2	1			
Los Gatos							/						1			
Milpitas					<del>///</del>	//	/					1	2			
Monte Sereno						/	//					1	2			
Morgan Hill				///	//					4	2					
Mountain View							/	/				1	1			
NASA/Ames																
Palo Alto					///	/	/				3	1	1			
San Jose				/	///	<del>///</del>	//	/		1	3	5	2	1		
Santa Clara					//	///					2	3				
Saratoga						///	//					3	2			
Stanford Univ				/	//	/				1	2	1				
Sunnyvale				//	/	<del>///</del>	/			2	1	5	1			
Other: _____																
6. Prepared by (Name, Call Sign) <i>Herman Munster W6XRL4</i>						7. Date & Time Prepared						Page 1 of 1				

SCCo ARES/RACES Mike-Mike Summary (rev: 05-Jul-2018)

<https://www.scc-ares-races.org/operations.shtml>

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## Example Damage Survey Net

- **Net Control**

- “This is <call sign>. Is there a net on this frequency?” (none heard)
- “This is <call sign>, net control for the Santa Clara County Resource Net.”
- “I will now take reports of damage using the Mike-Mike scale.”
- “I do NOT have the ability to dispatch resources.”
- “I will ask for call signs by severity. When I call you, please report using call sign, city, mike-mike number, and call sign”
- “I’ll take the first five call signs **only**” ... “with Mike-Mike 7 or higher”  
[work your way down the Mike-Mike numbers until you have everyone]

- **Class**

- When NC responds report in your damage report using the Mike-Mike scale
- Use the last digit in your telephone number; use “8” instead of “0” or “9”.
- Example:
  - NCO: “W6XRL4”
  - You: “W6XRL4, Xanadu, Mike-Mike 4, W6XRL4”  
**call sign   city   mike-mike #   call sign**

## City Specific Procedures

- Some cities want the hams in their city to check in with the city net first.
- In that case the city will provide summary (roll-up) data to the county periodically.
- Know your city's procedures.

## Resource Net – Level 2



- Purpose: Transition operators to local nets
- Trigger: A city/agency announces it has activated its local net and/or its EOC
- Listen on the Resource Net for your city EOC to activate
  - Example: “Resource Net Control, Los Altos EOC is now active and accepting check-ins on 146.595 simplex, this is <FCC call sign>”
- Switch to your city net frequency (typically a tactical freq.)
  - Check-in to the city net
  - If you’re joining later in the incident, check your city net first
  - If your city doesn’t activate, check-in on county resource net; they may have alternative instructions for you
- City Net Control decides where you are needed
  - City will request you monitor city frequency for possible assignment
  - City may release you to county; if so, return to county resource net

## Resource Net – Level 2 – Example

- May 5, 2012 County Drill – Simulated Earthquake
- As Resource Net level 1 continues
  - Net control is now taking reports of MM-5 and higher
- Some cities have determined that the situation is severe enough (simulated) to activate their city EOCs
- The net continues ...



## City/Agency-Level Tactical Nets

- At this point, some or all cities will have activated their city nets
- City residents switch to their city nets and follow instructions there
- If city resources are overwhelmed, city may contact the county for “mutual aid”
- Unaffected or lightly affected cities may release some of their operators to the county to provide mutual aid

## Resource Net – Level 3



- Purpose: tracking mutual aid resources
- Trigger:
  - A city has requested amateur radio mutual aid, or
  - A mutual aid communicator (MAC) has checked in after being released from his or her city
- Activity:
  - Assignments, activation, and tracking during mobilization and demobilization
- Example check-in:
  - Net Control, this is W6XRL4, Herman Munster. I've been released by my city and I'm available for an assignment. My credentials are F2, N3, and P3.

## Resource Net – Level 3



- Important: You must first be released by your city's Emergency Coordinator (EC) / Radio Officer (RO), or their designee
  - Check with your city tactical net first
  - If your city net is not up and you can't locate your EC, then check-in with county – they may have alternative instructions
- Check-in to County Resource Net Level 3 only if:
  - You have been released by your city
  - You have a County DSW
  - You are available for county-wide assignment (family/home, training, your 12-hr go-kit is complete and ready)
  - You are ready to go (car is loaded, gassed up; you are ready to walk out the door)

## Preparation While Waiting



- Net Control may or may not make an immediate assignment
  - It may take time for incident command to determine what resources are needed and where they need to be deployed
  - Be patient; pay attention; monitor closely; respond promptly
  - If you are unable to monitor inform Net Control that you need to leave the net and provide an alternative contact method
- If not immediately activated, use the time wisely to prepare
  - Double check your personal situation: home, family
  - Double check your go-kit, including batteries, food, water, etc.
  - Review proper emergency communications procedures & techniques  
“Performance Standards & Best Practices”



# Go Kit

- 2 Hour Carry Kit
  - Keep nearby at all times
  - Resource Net Level 1
    - Damage Reports
  - Resource Net Level 2
    - City net Check-ins
- 12 Hour Go kit
  - Fully independent operations for 12 hrs
  - Return home to retrieve
- Extended Kit (optional)
  - 72 hour or longer

**Santa Clara County ARES®/RACES Go Kit Checklists** Revised: 10-Jun-2021

**Legend:**  
 X = Required (must have in kit at all times)  
 R = Recommended (likely useful on many assignments)  
 O = Optional (useful on some assignments)

**2-Hour Carry Kit**

**Purpose:** To be kept nearby at all times for immediate (within minutes) communication of damage reports during Resource Net Level 1 ops. Also used to remain in contact with Resource Net Level 2 while returning home to retrieve 12-hour Go-Kit.

**Items:**

- X 2m/70cm dual-band radio
  - HT recommended (min. 5W on 12V/2.5W on batt)
  - Mobile 25W optional (if vehicle will not be far away)
  - Programmed with Resource Net frequencies
- X Charged batteries for 2-3 hours operation
- X 2m/70cm dual-band mobile antenna (mag mount, window mount or existing mobile antenna)
- X Current SCCo Voice Frequency List
- X Modified Mercalli (Mike-Mike) scale
- X Notepad / pens
- R Cigarette lighter adapter
- R Emergency county and city telephone contact list
- R Cell phone
- R Water (16 oz.)

---

**12-Hour Go Kit**

**Purpose:** For fully independent operation; unknown environment (heat, cold, wind, rain); unknown time (day, night, up to 12 hours). Return home to retrieve.

**Equipment**

**Portable Radio Equipment:**

- X 2m/70cm dual-band handie-talkie (HT)
  - Minimum 5W on 12V/2.5W on batteries [Note 1]
  - Dual-receive recommended
- X Radio user manual or cheat sheet
- X Earbud or headphones minimum; headset, earbud/mic, or speaker/mic/earbud, or similar recommended
- X Charged batteries for 12 hours (min. 3000 mAh) [Note 2]
- X Power cord adapters – connect HT to power sources:
  - Powerpoles
  - Cigarette lighter socket
  - Vehicle battery terminals
- X Spare fuses
- X Coax adapter: connect HT to coax
- X Min. 25 feet of 50 Ohm coaxial cable

- R Small backpack, vest, chest harness or other similar method for carrying HT while operating portable

**Mobile or Stationary Radio Equipment:**

- R 2m/70cm mobile radio (separate/removable from vehicle)
  - 25W minimum
  - Dual-receive, cross-band repeat
- R Radio user manual or cheat sheet
- R Headset (stereo recommended for VFO per ear) w/ inline, handswitch or footswitch PTT
- R Battery for 12-hours operation (20 Ah min.; 26 Ah rec.)
- R Power cord adapters – connect mobile to power sources:
  - Powerpoles
  - Cigarette lighter socket
  - Vehicle battery terminals
- R Powerpole splitter or fused distribution panel
- R Spare fuses
- R Coax adapter: connect mobile radio to coax
- R Min. 25 add'l feet of 50 Ohm coaxial cable w/barrel conn.
- R Extension cord, 3-wire, 3-6 ft., multi-outlet
- O Extension cord, 3-wire, 50-100 ft.

**Antennas:**

- X Coax adapters: connect coax to existing antenna jack:
  - BNC plug (male) & BNC socket (female)
  - UHF plug (PL-259) & UHF socket (SO-239)
  - N-type plug (male) and N-type socket (female)
- X 2m/70cm dual-band magnetic or window mount antenna
- R 2m/70cm high gain HT antenna
- R 2m/70cm dual-band portable base antenna (e.g. roll-up J-pole or other)
- R Portable mast (elevates antenna base min. 10 ft.)
- R Tripod or other self-supporting base for mast
- R Window clip antenna mount (for non-metallic vehicles)

**Packet Equipment:**

- O Laptop with Outpost and PacFORMS installed
- O USB flash drive (i.e. USB key)
- O TNC (may be hardware, software or built into radio)
- O Cables: TNC to radio; TNC to PC
- O Shade cover for display
- O Portable printer
- O Entire station can operate for min. 1 hr on battery

**Other Communications Gear:**

- R Cell phone & charger and/or cigarette lighter adapt.
- O FRS/GMRS Radio
- O Satellite phone

**Tools:**

- R Duct tape
- R Electrical tape
- R Nylon Tie-Wraps/wire ties
- R Utility knife
- R Small multi-tool or tool kit

Santa Clara County ARES®/RACES Page 1 of 4

<https://www.scc-ares-races.org/operations.shtml>

## Assignment and Activation



- Net Control may call you at some point and offer an assignment
  - Applies to both city and county nets
- If you accept the assignment, you will be activated
  - Do not accept any assignment if you don't understand it, don't feel safe, aren't properly trained for it, or don't have the right equipment for the assignment
  - Do not accept an assignment if you're not ready to depart
    - You should only be on Resource Net Level 3 if you're ready for an assignment
- Before leaving home, notify Net Control that you are ready to depart
  - Report your location (closest major intersection) and last three digits of odometer
- You will be given travel instructions & arrival instructions (may come later)
  - Write it down! Often includes important travel restrictions
- You will be given the activation number
- Begin filling out your ICS-214

## Health and Welfare Checks

- Disaster Service Worker (DSW) rules require you to be supervised at all times
- Part of that supervision is regular health & welfare checks
- Net control will usually initiate every 20-30 minutes
  - Listen for H&W checks and respond promptly
  - If they don't call you, speak up
- Response if OK:
  - When traveling: location, odometer, FCC call sign
  - On assignment: tactical call sign (if any) and your FCC call sign
- If you're not OK, say so
- Don't make Net Control ask you for the information
  - You know what's needed; be prepared to provide it

## Driving



- Drive safely, do not speed, follow all applicable laws
- Do not drive off-road unless trained and authorized to do so
- Do not go anywhere that you feel is not safe
- Professionally and responsibly withdraw from situations that become risky; advise net control and/or served agency promptly
- Observe “distracted driving” laws
- Follow any instructions Net Control gives you

## Distracted Driving Law

- California Vehicle Code 23123.5 restricts the use of handheld wireless communication devices while driving.
- The law wasn't intended to affect amateur radio operators, but the wording is vague and, as written, could be interpreted to include us.
- We're not lawyers; use your own judgement
  - If you don't feel safe responding to net control while driving, then pull over when and where it's safe before responding to net control.
  - Do not stop on a freeway; pull off the freeway to a parking lot then contact Net Control
  - You can be distracted in a variety of ways and the officer may only consider that, and not the type of radio you are using.
- Review the information on our website about this law and make your own decision on how to proceed with using your radio while driving.  
<https://www.scc-ares-races.org/operations.shtml - mobile>
- Note the repeated use of the word "mounted" in the law, CHP memo, and press release. Holding an HT in your hand may get you into trouble.
- Inform NC of your intentions when checking into a Resource/Travel Net.

## Arriving on Scene



- Pick an appropriate and safe place to park
- STAY in your vehicle and do the following:
  - Update your ICS-214
  - Tell the Resource NC you've arrived at Staging and the last 3 digits of your odometer
  - Resource Net control will inform you of the staging net
  - Tell Resource NC you are checking out of the resource net and checking into the staging net
  - End with your FCC call sign

## Arriving on Scene (con't)



- Contact Staging net control
- If you CANNOT make contact with local tactical Net Control, return to the Resource Net and ask for further instructions
- Tell the staging net control your call sign, that you have arrived at staging, and that you are in your vehicle
- Do all this FROM YOUR VEHICLE using the more powerful mobile radio and/or antenna
- Follow net control's instructions. Do NOT leave your car and walk to the event unless instructed to do so
  - They may not want you there yet and this violates the County's standards of operation.

## Interacting With Local Authorities



- Approach in the field of vision of the officer
- Keep hands in plain sight
- Greet the officer
- Identify yourself
- Show identification
- State who sent you
- State where you are headed
- State what you will do there
- Request permission to pass
- Thank the officer
- If you have difficulty, do not argue!
  - Walk away (as appropriate) and contact net control to ask for instructions



## Checking In at the Scene



- At the event, check in where instructed
  - ICS-211A Check-In List (if there isn't one, create one)
  - Fill out paperwork (ICS-214, safety briefing, T-card, etc.)
- Follow the instructions of the local team
  - Be patient; you may be asked to wait until others arrive
  - Attend the briefing
  - Be courteous; you are there to help, not run the show
- Remain in constant contact with the staging net
  - If you need to go off the air, inform Net control
  - If we lose track of you, you have become part of the problem; we have to go find you!

## ICS-205 Communications Plan

- You will be provided with an ICS-205 Communications Plan
  - Before the event for most public service events
  - At the event for non-planned events and drills
- Lists all frequencies to be used during the event including backups.
- These should be programmed into your radio
  - before the event for public service events
  - at Staging for non-planned events and drills
  - Initially program only those needed for your assignment and the backups

<b>COMMUNICATIONS PLAN</b> SCCo ARES/RACES/ACS		<b>1. Incident Name/Location</b> Boris Karloff Memorial Mummy Race / Mockingbird Heights Stage			<b>2. Activation Number</b> MHT-15-05		<b>3. Operational Period Date/Time</b> From Date: 10/31/2018 To Date: 10/31/2018 From Time: 18:00 To Time: 24:00			
<b>4. Communications Resources</b>										
Ch #	Function	Call Sign and/or Sys / Net / Ch / TG Name	Assignment	Rx Freq N / W	Rx Tone or NAC	Tx Freq N / W or + / - / S	Tx Tone or NAC	Mode A,D,M	Remarks	
1	Resource	K6ABC3/R Resource Net-West	Mutual Aid Activation & Tracking	146.115 W	N/A	+	100.0	A	Use when approaching from the west.	
2	Resource	N6XYZ0/R Resource Net-East	Mutual Aid Activation & Tracking	440.800 W	127.3	430.800 W	114.8	A	Use when approaching from the east.	
3	Command	WA6WK9/R Command Net	Event Staff	442.500 W	100.0	+	100.0	A	Open net. All event staff should monitor.	
4	Command	KZ6MHT1/R Command Net - Alt	Event Staff	146.640 W	N/A	-	162.2	A	Backup.	
5	Staging	Staging Net	Unassigned Communicators	147.420 W	N/A	S	N/A	A	Contact Staging upon arrival and when traveling between assignments.	
6	Operations	KZ6MHT1/R Race Net	Checkpoints and Rovers	146.640 W	N/A	-	162.2	A	All communicators must be in contact with net control when performing their assigned duties.	
7	Operations	WA6WK9/R Race Net -Alt	Checkpoints and Rovers	442.500 W	100.0	+	100.0	A	Backup.	
8	Operations	MHT EOC	Command Post	3.878 LSB	N/A	S	N/A	A	HF 75m NVIS with Mockingbird Heights EOC	
9	Operations	W1MHT-1	Packet BBS Access	145.750 W	N/A	S	N/A	D	1200 baud.	
10	Emergency	9-1-1	Police/Fire/Medical Requests	N/A	N/A	N/A	N/A	-	Call 9-1-1 to request first-responder assistance, THEN notify net control.	
<b>5. Special Instructions</b> Resource Net repeaters will be linked. All nets are Directed Nets unless otherwise indicated.										
ICS 205 SCCo RACES		6.Prepared by (Communications Unit Leader) Herman Munster, W6XRL4			7.Prepared Date/Time 06/02/2018 09:30			8. Page 1 of 1		

See reverse for instructions. All channels are shown as if programmed in a base station, mobile or portable radio. Repeater stations must be programmed with the Rx and Tx reversed.

ICS 205-SCCo ARES/RACES/ACS (rev. 2018-Jul-04)

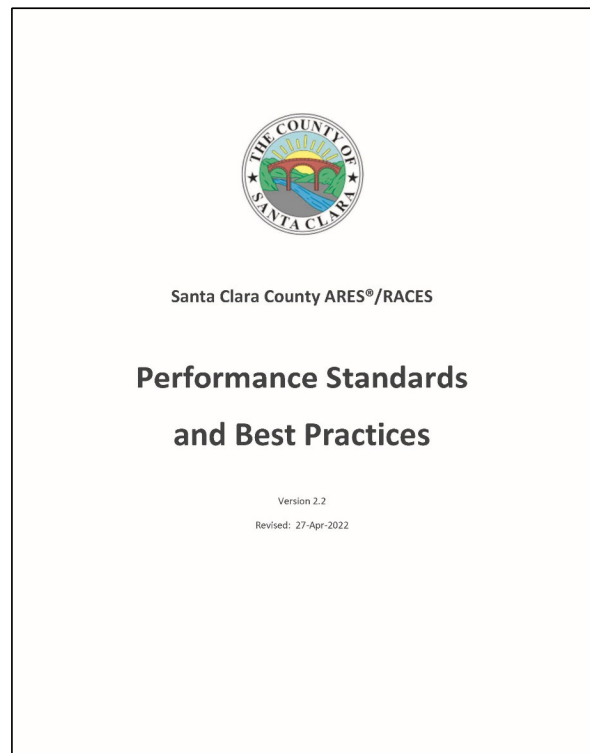
## Conducting Yourself at the Scene



- You are there to assist with communications
  - You are not there to manage the incident, nor to manage all comms
- You must be courteous and respectful at all times
  - You are an ambassador for ALL amateur radio!
  - What you do and how you act reflects on ALL of us
  - If you experience difficulty, contact your supervisor or net control
- Your job is to be a communicator
  - Do NOT direct vehicle traffic, climb towers, move barricades, etc.
    - You are not trained for these; you will not be covered by DSW!
  - Do NOT take on tasks that will interfere with duties as a communicator
  - Do NOT take on tasks or go places if you do not feel safe
  - Do be the best, most effective communicator you can be
- At all times, remain in contact with net control

# Procedures & Techniques

- Contents
  - Professionalism & Training
  - Communications Technique
  - Safety
  - Methods & Procedures
  - Equipment
  - Documentation
- Keep a copy in your Go Kit
- Review before/during each assignment



<https://www.scc-ares-races.org/operations.shtml>

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## Checking Out at the End of Assignment

- If you sustained an injury during your assignment that hasn't already been reported to your supervisor, report it before checking out.
- Check out at the location where you checked in
  - Turn in all documents and forms as instructed
  - Sign out on ICS-211A Check-In List
- Check OUT of the local event tactical net

## Demobilization



- Check IN on the Resource Net (or other travel tracking net)
- Inform Resource Net control that you are proceeding home
  - Give current street location and last three digits of odometer
- Do H&W every 20-30 minutes on the way home
  - Give street location (“Highway 101 at 280”) and last three digits of odometer
- Check out when you arrive home
  - Give location (“arrived at home”) and mileage and state you are checking out
- You are responsible for maintaining contact with net control at all times
- If you have somewhere else to go, you can check out early, before arriving home
  - You will not be covered under DSW after checking out
  - For drills and public service events you can opt out of being tracked home
    - In that case do not check into the Resource Net (Unless you are taking part in a Credential evaluation)

## Your To Do List (so far)



- Become familiar with: <https://www.scc-ares-races.org>
  - At a minimum, review everything on the Operations page
- County and City DSW registration
- Inform family of Workers' Comp provisions
- Learn the nets and their usage
- Obtain Frequency lists (county, city); program your radio
- **Prepare Go Kit, Review Performance Standards**
- **Learn mobilization, tracking, demobilization procedures**



**BREAK**

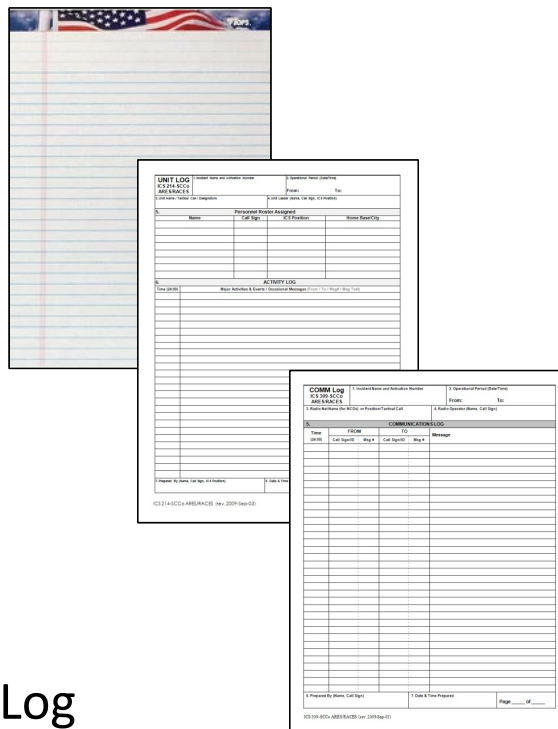


Tracking activities and message traffic

## **FUNDAMENTALS OF LOGGING**

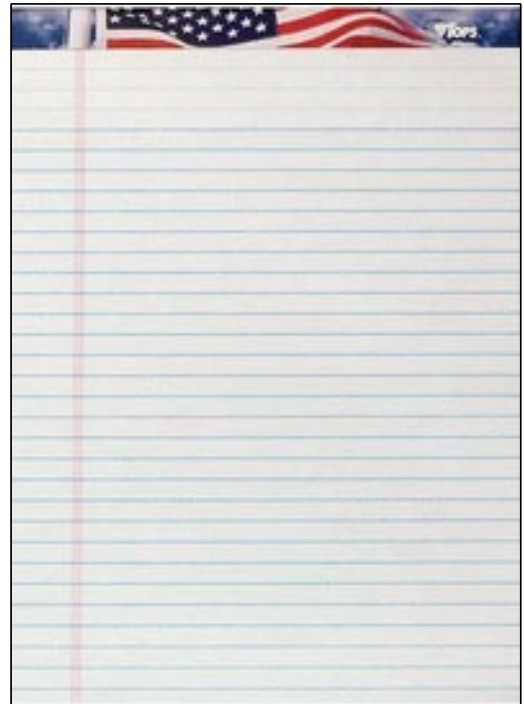
## Three Primary Logging Forms

- Form 1
- ICS 214 – Unit Activity Log
- ICS 309 – Communications Log



## Form 1

- Clear documentation is required
- A simple writing tablet works
- Lots of uses
  - Writing down assignment
  - Writing down activation number
  - Copying directions
  - Informal notes and messages
  - Scratch paper
  - Food and drink orders for the team
  - ... when you run out of the right form
- Turn in to supervisor at end of shift
  - (yes, even informal notes!)







## Example 214

Individual field communicator

**Complete the form for your attendance at a simulated class held today using the following fictional information:**

- Your Tactical ID was assigned at the start of class - **Student XXX**
- Activation # TRA-21-04T
- Fundamentals of EmComm Class is from 6 pm to 9:30 pm
- Departed Home 5:25 pm, mileage of 24543
- Arrived at class location at 5:52 pm, mileage of 24554
- Started class at 6 pm
- Assigned your Tactical Call at 6:05 pm
- Took a break at 7:08 pm
- Took another break at 8:14 pm
- Completed class at 9:30 pm







# ICS 309-SCCo

Field-by-field instructions on back:

1. Incident Name & Activation Nbr
2. Operational Period (date, time)
3. Radio Net or Position Name
  - NCOs: Radio Net Name
  - Individuals: Position/Tactical Call
4. Radio Operator (name, call sign)
5. Communications Log
  - Time (local 24:00 hour time)
  - From (Call Sign/ID & Msg #)
  - To (Call Sign/ID & Msg #)
  - Message Summary
6. Prepared by   6A. Signature
7. Date & Time Prepared
8. Page Numbers

**More details in Net Control and Field Operations classes and in on-line training**

<b>COMM Log</b> ICS 309-SCCo ARES/RACES		1. Incident Name and Activation Number		2. Operational Period (Date/Time)	
				From:	To:
3. Radio Net Name (for NCOs) or Position/Tactical Call			4. Radio Operator (Name, Call Sign)		
5. COMMUNICATIONS LOG					
Time (24:00)	FROM		TO		Message
	Call Sign/ID	Msg #	Call Sign/ID	Msg #	
6. Prepared By (Name, Call Sign)		6A. Signature		7. Date & Time Prepared	
				8. Page ____ of ____	

ICS 309-SCCo ARES/RACES (Rev. 2021-Apr-08)

## Summary of Logging Responsibilities

- Everyone fills out an ICS-214 Unit Activity Log (ICS 214-SCCo)
- Shadows only
  - Log message traffic on the ICS-214 Unit Activity Log
  - The ICS-309 Communications Log is optional
- Other operators (Net Control, Field, etc.)
  - Use an ICS-309 Communications Log for logging message traffic
  - Does not replace the need to maintain a 214 Unit Activity Log
- Start your ICS-214 as soon as you receive your assignment
- Must be legible!
- Turn in your log(s) at the end of your shift

## Your To Do List (so far)



- Become familiar with: <https://www.scc-ares-races.org>
  - At a minimum, review everything on the Operations page
- County and City DSW registration
- Inform family of Workers' Comp provisions
- Learn the nets and their usage
- Obtain Frequency lists (county, city); program your radio
- Prepare Go Kit, Review Performance Standards
- Learn mobilization, tracking, demobilization procedures
- **Learn and use the ICS-214 Unit Activity Log**

**THE AMERICAN RADIO RELAY LEAGUE**  
**RADIOGRAM**  
FOR AMATEUR RADIO

NAME: \_\_\_\_\_ PREFIX: \_\_\_\_\_ NR: \_\_\_\_\_ LOCATION OF STATION: \_\_\_\_\_ CLASS: \_\_\_\_\_ PLACE OF ORIGIN: \_\_\_\_\_ TIME FILED: \_\_\_\_\_ DATE: \_\_\_\_\_

TO: \_\_\_\_\_ THIS RADIO MESSAGE WAS RECEIVED AT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 NAME: \_\_\_\_\_  
 STREET ADDRESS: \_\_\_\_\_  
 CITY AND STATE: \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

REC'D FROM DATE TIME SENT TO DATE TIME

TO: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ a.m. / p.m.  
 FROM: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 QP: \_\_\_\_\_ FAX: \_\_\_\_\_

PHONE MESSAGE

SIGNED: \_\_\_\_\_

PHONED  CALL BACK  RETURNED CALL  WANTS TO SEE YOU  WILL CALL AGAIN  WKS IN  URGENT

**MESSAGE FORM**    Origin Msg #: \_\_\_\_\_    Destination Msg #: \_\_\_\_\_

\* For answer use telephone pen - blue or black ink only (see back for instructions)

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Handling:  Immediate (ASAP)     Priority (< 1hr)     Routine (< 2hr)

This Message Requests You To:  TAKE ACTION (✓acc):  Yes     No  
 REPLY (✓acc):  Yes, by \_\_\_\_\_     No

ICS Position: (required) \* \_\_\_\_\_ ICS Position: (required) \* \_\_\_\_\_

Location: (required) \* \_\_\_\_\_ Location: (required) \* \_\_\_\_\_

Name: (optional) \_\_\_\_\_ Name: (optional) \_\_\_\_\_

Telephone #: (optional) \_\_\_\_\_ Telephone #: (optional) \_\_\_\_\_

SUBJECT: <sup>16</sup> \_\_\_\_\_

REFERENCE: (e.g., Number of earlier msg): <sup>17</sup> \_\_\_\_\_

MESSAGE: <sup>18</sup> (what, when, where needed; how long; contact name and phone number - KEEP MSG BRIEF)

ACTION TAKEN: <sup>19</sup> (for use by Originator / Receiver)    **USE SEPARATE MESSAGE FORM IF SENDING REPLY:**

CC:  Management     Operations     Planning     Logistics     Finance

Operator Use Only: <sup>20</sup>

Relay: Rec'd \_\_\_\_\_ or Sent (✓acc): \_\_\_\_\_ Sent: \_\_\_\_\_

How:  Telephone     Dispatch Center    Operator Call Sign: \_\_\_\_\_

EDC Radio     FAX     Courier    Operator Name: \_\_\_\_\_

Amateur Radio     Other    Date: \_\_\_\_\_ Time: \_\_\_\_\_

Originator's Use:  
 Message Originator: Send the original to radio. Retain a copy for your reference.  
 Radio: After sending, complete Operator Use Only and file in radio.  
 Incoming Receiver:  
 Radio: Complete Operator Use Only and route to the Addressee. Retain a copy in radio if directed by Supervisor.  
 Addressee: Take appropriate action.

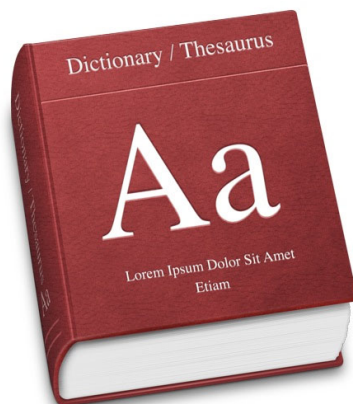
©Co RACES ICS Form 213 (01/19/2022, Illinois 03/1/2022)

The Message Net in Action

# FUNDAMENTALS OF MESSAGE HANDLING

## What is a Message Net?

- A network of Amateur Radio Operators acting in an official capacity to pass traffic to or receive traffic from a served agency.



## Types of Message Nets

- County Message Net
  - Between City/Agency and County
  - Between Operational Area (county) and Region
- Local Message (tactical) Net
  - Between Field Stations and City/Agency EOC (Emergency Operations Center)

# Types of Messages

- 3<sup>rd</sup> Party Messages (for served agencies)
  - Typically between field site and city; between city and county; between agency and county
  - Use official ICS Forms where appropriate
    - ICS = Incident Command System
  - Other messages - use dual-copy phone message form, radiogram, or other acceptable form
- Operational messages (operator to operator)
  - Simple, tactical messages
  - Ex: Check-in/out, health & welfare, damage reports, status reports, etc.
- All messages are always logged

## ICS-213 Message Form



## Message Traffic Operator Skills

A good radio operator ...

- ... is as concise as possible
- ... frequently identifies tactical call
  - Don't forget FCC call sign at end of traffic
- ... clearly states the nature of the traffic
  - "I have one priority message for you."
- ... passes or copies messages exactly as written
- ... uses the appropriate message form
- ... keeps an accurate log (ICS-309)
- ... uses proper phonetics, numbers and pro-words
- ... passes messages five words at a time
  - and only as fast as you can write them yourself

## Standard ITU Phonetics

A - alfa (AL-fa)	N - november (no-VEM-ber)
B - bravo (BRAH-voh)	O - oscar (OSS-cah) *
C - charlie (CHAR-lee)	P - papa (pah-PAH) *
D - delta (DELL-tah)	Q - quebec (keh-BECK) *
E - echo (ECK-oh)	R - romeo (ROW-me-oh)
F - foxtrot (FOKS-trot)	S - sierra (see-AIR-rah)
G - golf (GOLF)	T - tango (TANG-go)
H - hotel (hoh-TELL)	U - uniform (YOU-ni-form)
I - india (IN-dee-ah)	V - victor (VIK-tah) *
J - juliet (JU-lee-ETT)	W - whiskey (WISS-key)
K - kilo (KEY-loh)	X - x-ray (ECKS-RAY)
L - lima (LEE-mah)	Y - yankee (YANG-key)
M - mike (MIKE)	Z - zulu (ZOO-loo)

\* non-standard voicing

- If there is a chance of misunderstanding, spell it out with "I spell":
  - "go to Kay Street" → "go to Kay, I spell kilo alfa yankee, Street"

## Pronouncing Numerals

0 - zero (ZEE-row)

1 - one (Wun)

2 - two (Too)

3 - three (Tree) \*

4 - four (FOH-wer) \*

5 - five (Fife) \*

6 - six (Sicks)

7 - seven (SEV-vin)

8 - eight (Ate)

9 - nine (NINE-er) \*

\* non-standard voicing

- Multi-digit numbers are spoken as a string of single digits:
  - 600 = “sicks zero zero”
- Preceded by the word “figures”
  - “Please copy 109” → “Please copy figures, one zero niner”
  - “Requesting 16 blankets” → “Requesting figures, one sicks, blankets”

## Message Handling Prowords

SAY AGAIN ... Repeat – usually used with other prowords

WORD AFTER “Say again word after ...”

WORD BEFORE “Say again word before ...”

BETWEEN “Say again between ... and ...”

ALL AFTER “Say again all after ...”

ALL BEFORE “Say again all before ...”

I SPELL “I spell, Alfa, Bravo ...”

FIGURES “Figures Wun, ZEE-row, NINE-er” (= 109)

INITIALS “Initials Echo, Oscar, Charlie” (= “EOC”)

MIXED GROUP “Mixed Group Foxtrot, Wun, Fife,  
ZEE-row” (=“F150”)

# ICS 213 Message Form

- Message Numbers
- Header
- Address Info
- Message Body
- Action Taken
- Operator Use
- **Field numbers are only used to reference instructions on the back of the form**

<b>MESSAGE FORM</b> <small>For paper: use ballpoint pen - blue or black ink only (see back for instructions)</small>		Origin Msg # <b>3</b>	Destination Msg # <b>3</b>
Date <b>2</b> <small>(mm/dd/yy)</small>	Time (24hr): <small>(0001 to 2400)</small>	Handling <b>3</b> <input type="radio"/> Immediate (ASAP) <input type="radio"/> Priority (< 1hr) <input type="radio"/> Routine (< 2hr)	This Message Requests You To <b>4</b> TAKE ACTION (*one): <input type="radio"/> Yes <input type="radio"/> No REPLY (*one): <input type="radio"/> Yes, by <input type="text"/> <input type="radio"/> No
T O	ICS Position: (required) <b>5</b>	F R O M	ICS Position: (required) <b>5</b>
	Location: (required) <b>6</b>		Location: (required) <b>6</b>
	Name: (optional)		Name: (optional)
	Telephone #: (optional)		Telephone #: (optional)
SUBJECT <b>7</b>			
REFERENCE (e.g., Number of earlier msg.) <b>8</b>			
MESSAGE <b>9</b> (what, when, where needed; how long; contact name and phone number - KEEP MSG BRIEF)			
ACTION TAKEN <b>10</b> (For use by Originator / Recipient) <b>USE SEPARATE MESSAGE FORM IF SENDING REPLY!</b>			
CC: <input type="checkbox"/> Management <input type="checkbox"/> Operations <input type="checkbox"/> Planning <input type="checkbox"/> Logistics <input type="checkbox"/> Finance			
<b>Operator Use Only</b> <b>11</b>			
Relay:	Rev'd:	Sent:	
How: <input type="radio"/> Received or <input type="radio"/> Sent (*one):	Operator Call Sign:		
<input type="radio"/> Telephone <input type="radio"/> Dispatch Center	Operator Name:		
<input type="radio"/> EOC Radio <input type="radio"/> FAX <input type="radio"/> Courier			
<input type="radio"/> Amateur Radio <input type="radio"/> Other	Date:	Time:	
<b>Outgoing (Sent)</b> <b>12</b>			
<small>Message Originator: Send the original to radio. Retain a copy for your reference. Radio: After sending, complete Operator Use Only and file in radio. Incoming (Received) <b>13</b> Radio: Complete Operator Use Only then route to the Addressee. Retain a copy in radio if directed by Supervisor. Addressee: Take appropriate action.</small>			
<small>SCCo RACES ICS Form 213 (01/19/2022, fillable 3/31/2022)</small>			

<http://www.scc-ares-races.org/operations.shtml>

## Message Form – Message Numbers

- Critically important for tracking messages
- If you are Sending
  - Your message number goes in the Origin Msg # box (it’s often pre-stamped on the form)
  - Write the receiver’s message number in the Destination Msg # box
- If you are Receiving
  - Your message number goes in the Destination Msg # box
  - Write the sender’s message number in the Origin Msg # box
- You have both blocks filled in when finished

<p><b>MESSAGE FORM</b></p> <p>▶ For paper: use ballpoint pen – blue or black ink only (See back for instructions)</p>	Origin Msg #: <sup>2</sup> <input style="width: 80px; height: 20px;" type="text"/>	Destination Msg #: <sup>3</sup> <input style="width: 80px; height: 20px;" type="text"/>
---	--	---

## City/Agency Codes

- Cities will use these codes as the prefix of their message numbers.
- Hospitals use codes for each facility. These are available to the Hospital Net operators.

Agency	Prefix
Campbell	CBL
Cupertino	CUP
Gilroy	GIL
Loma Prieta	LMP
Los Altos	LOS
Los Altos Hills	LAH
Los Gatos / Monte Sereno	LGT
Milpitas	MLP
Morgan Hill	MRG
Mountain View	MTV
NASA/Ames	NAM
Palo Alto	PAF
San Jose	SJC
Santa Clara	SNC
Santa Clara County	XSC
Saratoga	SAR
Stanford	STU
Sunnyvale	SNY

## Message Form - Header

- Date, Time (when message was created)
  - Use 24-hour clock, local time
- Handling Order
  - Always prioritize according to handling order first
- Take Action, Reply
  - Often neglected by untrained; check to make sure sender filled it in

Black ink only (See back for instructions)

<b>Date</b> <sup>1</sup> :	<b>Time</b> (24hr):	<b>Handling</b> <sup>5</sup> (✓one): <input type="radio"/> Immediate (ASAP) <input type="radio"/> Priority (< 1hr) <input type="radio"/> Routine (< 2hr)
<input type="text"/> (mm/dd/yy)	<input type="text"/> (0001 to 2400)	<b>This Message Requests You To</b> <sup>6</sup> :
		<b>TAKE ACTION</b> (✓one): <input type="radio"/> Yes <input type="radio"/> No
		<b>REPLY</b> (✓one): <input type="radio"/> Yes, by <input type="text"/> <input type="radio"/> No
<b>ICS Position:</b> (required) <sup>7</sup>		<b>ICS Position:</b> (required) <sup>8</sup>



## Message Form - Address

- To, From
  - ICS Position (required)
    - Planning, Logistics, Operations, Finance, Shelter Manager, ...
  - Location (required)
    - Santa Clara County EOC, Los Altos EOC, Shelter 2, Check Point B, ...
  - Name (optional)
  - Telephone (optional)

<b>T O</b>	ICS Position: (required) <sup>7</sup>	<b>F R O M</b>	ICS Position: (required) <sup>8</sup>
	Location: (required) <sup>9</sup>		Location: (required) <sup>9</sup>
	Name: (optional)		Name: (optional)
	Telephone #: (optional)		Telephone #: (optional)

## Message Form - Body

- Subject - Brief summary of message topic
- Reference - Used for replying to a previous message
- Message body
  - 5 words at a time; punctuation is part of the word
  - Speak slow enough for the other person to copy
  - Pretend you are writing when you send; helps pace your sending speed

The image shows a message form template with a torn paper effect at the top and bottom. The form is enclosed in a black border and contains the following fields:

**SUBJECT:** <sup>10</sup>

**REFERENCE** (e.g., Number of earlier msg.): <sup>11</sup>

**MESSAGE:** <sup>12</sup> (what, when, where needed; how long; contact name and phone number - KEEP MSG BRIEF)

## Message Form – Operator Use

- For tracking how message was handled (received or sent)
- How Received or Sent
  - For us, we will typically check Amateur Radio
  - But we are first and foremost communicators, so we may send by FAX or telephone or other means
- Operator Call Sign, Name
- Date, Time (when you sent/received the message)
- Relay - covered in the Message Passing Class

CC: <input type="checkbox"/> Management		<input type="checkbox"/> Operations	<input type="checkbox"/> Planning	<input type="checkbox"/> Logistics	<input type="checkbox"/> Finance
<b>Operator Use Only:</b> <sup>14</sup>					
Relay:	Rcvd:	<input type="text"/>	Sent:	<input type="text"/>	
How:	<input type="radio"/> Received or <input type="radio"/> Sent (✓one):			Operator Call Sign:	<input type="text"/>
<input type="radio"/> Telephone	<input type="radio"/> Dispatch Center			Operator Name:	<input type="text"/>
<input type="radio"/> EOC Radio	<input type="radio"/> FAX	<input type="radio"/> Courier			
<input type="radio"/> Amateur Radio	<input type="radio"/> Other	<input type="text"/>	Date:	<input type="text"/>	Time: <input type="text"/>
<b>Outgoing (Sent):</b> <sup>15</sup>					

## Message Form – Date and Time use

Black ink only (See back for instructions)

<b>Date <sup>1</sup>:</b> <input type="text"/> (mm/dd/yy)	<b>Time (24hr):</b> <input type="text"/> (0001 to 2400)	<b>Handling <sup>5</sup>(✓one):</b> <input type="radio"/> Immediate (ASAP) <input type="radio"/> Priority (< 1hr) <input type="radio"/> Routine (< 2hr)
		<b>This Message Requests You To <sup>6</sup> :</b> TAKE ACTION (✓one): <input type="radio"/> Yes <input type="radio"/> No REPLY (✓one): <input type="radio"/> Yes, by <input type="text"/> <input type="radio"/> No
<b>ICS Position: (required) <sup>7</sup></b>		<b>ICS Position: (required) <sup>8</sup></b>



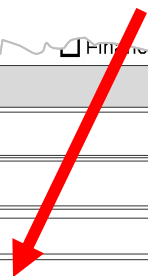
**Date and time the originator filled out the message form**

**Date and time the message was actually sent or received**

CC:     Management     Operations     Planning     Logistics     Finance

Operator Use Only: <sup>14</sup>			
Relay:	Rcvd: <input type="text"/>	Sent: <input type="text"/>	
How:	<input type="radio"/> Received    or <input type="radio"/> Sent    (✓one):		Operator Call Sign: <input type="text"/>
<input type="radio"/> Telephone	<input type="radio"/> Dispatch Center		Operator Name: <input type="text"/>
<input type="radio"/> EOC Radio	<input type="radio"/> FAX	<input type="radio"/> Courier	
<input type="radio"/> Amateur Radio	<input type="radio"/> Other <input type="text"/>	<b>Date:</b> <input type="text"/>	<b>Time:</b> <input type="text"/>

Outgoing (Sent): <sup>15</sup>



# Recommended Transmission Process

- Sender
  - ✓ Message #, Date, Time, Handling, Requests (wait for ACK)
  - ✓ To, From (wait for ACK)
  - ✓ Subject (wait for ACK)
  - ✓ Reference (if any) (wait for ACK)
  - ✓ Message - 5 words at a time (wait for ACK)
  - ✓ Say "End of message"
- Receiver
  - ✓ ACK followed by their (receiver's) message #
  - ✓ "This is <call sign>"
  - ✓ Fill in Operator Info
- Sender
  - ✓ ACK Msg # / Fill in receiver's message #
  - ✓ "This is <call sign>"
  - ✓ Fill in Operator Info

MESSAGE FORM			Origin Msg #: <sup>2</sup> _____	Destination Msg #: <sup>2</sup> _____
<small>For paper: use ballpoint pen - blue or black ink only (see back for instructions)</small>				
Date: <sup>1</sup> <small>(mm/dd/yy)</small>	Time (2hr): <small>(0001 to 2400)</small>	Handling: <sup>3</sup> (✓one) <input type="checkbox"/> Immediate (ASAP) <input type="checkbox"/> Priority (-1 hr) <input type="checkbox"/> Routine (-2 hr)	This Message Requests You To: <sup>4</sup>	
		TAKE ACTION (✓one): <input type="checkbox"/> Yes <input type="checkbox"/> No		
		REPLY (✓one): <input type="checkbox"/> Yes, by <input type="checkbox"/> No		
T O	ICS Position: (required) <sup>5</sup>	F R O M	ICS Position: (required) <sup>5</sup>	
	Location: (required) <sup>5</sup>		Location: (required) <sup>5</sup>	
	Name: (optional)		Name: (optional)	
	Telephone #: (optional)		Telephone #: (optional)	
SUBJECT: <sup>10</sup>				
REFERENCE (e.g., Number of earlier msg): <sup>11</sup>				
MESSAGE: <sup>12</sup> (what, when, where needed; how long; contact name and phone number - KEEP MSG BRIEF)				
ACTION TAKEN: <sup>13</sup> (For use by Originator / Recipient) → USE SEPARATE MESSAGE FORM IF SENDING REPLY!				
CC: <input type="checkbox"/> Management <input type="checkbox"/> Operations <input type="checkbox"/> Planning <input type="checkbox"/> Logistics <input type="checkbox"/> Finance				
Operator Use Only: <sup>14</sup>				
Relay:   Rcvd:		Sent:		
How Received <input type="checkbox"/> or Sent <input type="checkbox"/> (✓one):		Operator Call Sign:		
<input type="checkbox"/> Telephone	<input type="checkbox"/> Dispatch Center	Operator Name:		
<input type="checkbox"/> EOC Radio	<input type="checkbox"/> FAX <input type="checkbox"/> Courier	Date: _____ Time: _____		
<input type="checkbox"/> Amateur Radio	<input type="checkbox"/> Other _____			
<small>Message Originator: Send the original to radio. Retain a copy for your reference. Radio: After sending, complete Operator Use Only and file in radio. Incoming (Received): <sup>15</sup> Radio: Complete Operator Use Only then route to the Addressee. Retain a copy in radio if directed by Supervisor. Addressee: Take appropriate action. <span style="float: right;">SCCo RACES ICS Form 213 (8/1/19/2022)</span></small>				

## Sending to More Than One Station

- Announce message
  - “All Stations, All Stations, Stand by to copy one routine ICS-213 message”
- Pick a pacing station
  - “Mountain View, will you be my pacing station?”
  - “Mountain View acknowledges”
- Send message as normal
  - Pacing station provides acknowledgements during message transfer
- Ask for acknowledgements from other stations
  - “I will now poll all stations for acknowledgements. When I call you, respond with your message number or request a fill.”
  - “Los Altos” ....
  - Gives stations an opportunity to ask for “fills” or repeats
  - Confirms which stations received the message

## Example Message

- Everyone will need a 213 Message Form
- I will send a message to all stations using a pacing station
- The pacing station will acknowledge or ask for fills.
  - The receiving station does **not** read back the message
- Everyone will copy the message
- After the pacing station acknowledges, you can ask for fills
  - Be sure to use the proper Prowords!
- We'll compare at the end

# How'd You Do?

- Should look like →
- Is it EXACTLY correct?
- Complex spelling
- Heterographs
  - “to” vs. “too” vs. “two”
  - “for” vs. “four” vs “fore”
  - “ate” vs. “eight”
- Did you add?
  - Message numbers
  - How received
  - Amateur Radio
  - Call sign
  - Name
  - Date
  - Time
- / used for 5 word breaks

MESSAGE FORM		Origin Msg #: <sup>2</sup> DOC-123	Destination Msg #: <sup>3</sup> _____
<small>► For paper: use ballpoint pen – blue or black ink only (See back for instructions)</small>			
Date: <sup>1</sup> 07/13/24 <small>(mm/dd/yy)</small>	Time (24hr): 15:27 <small>(0001 to 2400)</small>	Handling <sup>5</sup> (✓ one): <input type="checkbox"/> Immediate (ASAP) <input checked="" type="checkbox"/> Priority (<1 hr) <input type="checkbox"/> Routine (<2 hr)	This Message Requests You To <sup>6</sup> : TAKE ACTION (✓ one): REPLY (✓ one):
ICS Position: (required) <sup>7</sup> Planning Location: (required) <sup>9</sup> All Hospitals Name: (optional) Telephone #: (optional)		ICS Position: (required) <sup>8</sup> Planning Location: (required) <sup>9</sup> PHDOC Name: (optional) Telephone #: (optional)	
SUBJECT: <sup>10</sup> Availability of medication REFERENCE (e.g., Number of earlier msg.): <sup>11</sup> _____ MESSAGE: <sup>12</sup> (what, when, where needed; how long; contact name and phone number - KFFPP MSG BRIEF) Need 500 doses of acetaldehy / treat two cases / aspergilosis. Request advise availability.			
ACTION TAKEN: <sup>13</sup> (For use by Originator / Recipient) ► USE SEPARATE MESSAGE FORM IF SENDING REPLY!			
CC: <input type="checkbox"/> Management <input type="checkbox"/> Operations <input type="checkbox"/> Planning <input type="checkbox"/> Logistics <input type="checkbox"/> Finance			
Operator Use Only: <sup>14</sup>			
Relay: <input type="checkbox"/> Revv	Sent: <input type="checkbox"/> (✓ one):		Operator Call Sign: < your call sign >
How Receive: <input checked="" type="checkbox"/> Telephone	<input type="checkbox"/> Dispatch Center		Operator Name: < your name >
<input type="checkbox"/> JC Radio	<input type="checkbox"/> FAX <input type="checkbox"/> Courier		Date: < current date > Time: < current time >
<input checked="" type="checkbox"/> Amateur Radio	<input type="checkbox"/> Other _____		
<small>Outgoing (Sent): <sup>15</sup></small>			
<small>Message Originator: Send the original to radio. Retain a copy for your reference.                  Radio: After sending, complete Operator Use Only and file in radio.                  Incoming (Received): <sup>16</sup>                  Radio: Complete Operator Use Only then route to the Addressee. Retain a copy in radio if directed by Supervisor.                  Addressee: Take appropriate action. <b>SCCo RACES ICS Form 213 (01/19/2022)</b></small>			



## Get it Right!

- Our task is to effectively transfer message traffic
  - Priority ONE is to get the message through accurately
  - Priority two is to do so as quickly and efficiently as possible
- We don't alter the message; we send it as written
- If we don't get that right, there's no point in us being there
- Get it right – the first time, every time
- Training Opportunities
  - 3 Hour Message Passing Class – twice each year
  - Message Passing Practice Training Net – Quarterly 3<sup>rd</sup> Tuesday 2030  
On the Resource Net Repeaters – AA6BT, K6SNY, W6ASH
- Remember:
  - “For want of a letter, a word was lost.  
For want of a word, the message was lost.  
For want of a message, a life was lost.”

## Recommended ICS Training

- You now have exposure to the basics of emergency communications in Santa Clara County; but there's much more!
- During an emergency activation and exercises the professionals utilize the Incident Command System (ICS)
- Most served agencies that we work with require ICS training for volunteers. FEMA requires it for agency reimbursement.
- These introductory courses into ICS can be taken on-line at your own pace.
  - IS-100
  - IS-200
  - IS-700

<https://training.fema.gov/is/crslist.aspx>

## Recommended Training

- To be effective, you'll need training and some experience in each of the specific functional areas: field operations, net control, packet, and shadow.
- Santa Clara County ARES/RACES offers a number for free classes
- Some courses are multi-part; attend the parts in order
- Courses are usually held on Saturday mornings
- Drills and public service events occur throughout the year
- Sign up at: <https://www.scc-ares-races.org/activities>
- Hope to see you there

**Core Courses****Field Operations**

Field Operations - Type III, Part A

Field Operations - Type III, Part B and Type II

**Net Control**

Net Control - Type III, Part A

Net Control - Type III, Part B

Net Control - Type II

**Packet Operations**

Packet Operations - Type III, Part A

Packet Operations - Type III, Part B

Packet Operations - Type II

**Shadow Communicator**

Shadowing

**Other Core Courses**

Message Passing

Cross-band Repeating \*

Antenna Fundamentals and Safety \*

Event Planning – Type I

County EOC Radio Room Operator

**Year End Review**

Offered in December each year to review the significant changes made to any class or procedures during the year. Does not replace the need to attend other courses.

<https://www.scc-ares-races.org/activities>

Basic

Advanced

Specialized but not difficult

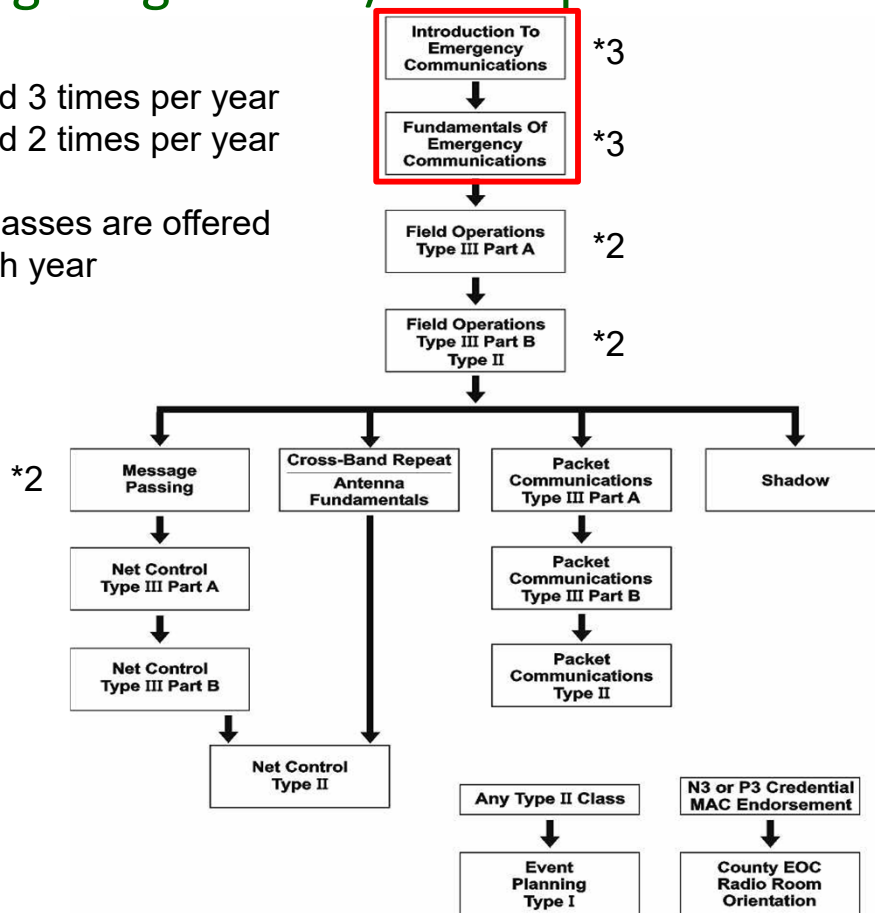
\* Has some basic elements but also some more advanced concepts

## Training Progression / Prerequisites

\*3 - Offered 3 times per year

\*2 - Offered 2 times per year

All other classes are offered 1 time each year



## Credentials:

- Incident Command System (ICS) resource “Types” identify capability
  - Applies to equipment (fire apparatus, aircraft, bulldozers, ...)
  - Applies to personnel roles (incident commander, section chief, ...)
- SCCo ARES/RACES credentials: four resource types across five roles
  - Type IV requires sign-off by city EC/Radio Officer
  - Types III, II, I require operational evaluation by peer evaluator
  - Each resource type includes operator skills and equipment appropriate for the role

Type	Skill Level	Field	Net Control	Shadow	Packet
I	Specialist	Field I	Net Control I	Shadow I	Packet I
II	Advanced	Field II	Net Control II	Shadow II	Packet II
III	Independent	Field III	Net Control III	Shadow III	Packet III
IV	Basic	Communicator IV			
V	Unknown	FCC Licensed Amateur Radio Operator (w/DSW)			

## Credential Types

- **Type I (Specialist)** - Capable of the most critical and complicated assignments. Capable of planning, designing, deploying and operating complex multi-radio, multi-antenna equipment configurations for larger events or incidents.
- **Type II (Advanced)** - Capable of more difficult assignments, higher message traffic assignments, requiring more equipment and more complicated configurations, operations and troubleshooting.
- **Type III (Independent)** - Capable of fully independent operation, without coaching or assistance, in the qualified skill area (Field Ops, Net Control, Packet, & Shadowing).
- **Type IV Communicator (Basic)** – Understands the basics, can be assigned to simple assignments.

## Earning a Credential

- Training
  - SCCo ARES/RACES courses: technical and role-specific
  - ICS/SEMS/NIMS/ emergency management courses
- Experience
  - Participation in nets, drills/exercises, incidents, public service
- Knowledge
  - Able to explain key concepts (general and role-specific)
- Equipment
  - Standard 12-hour go kit, plus more as appropriate
- Performance
  - Peer-reviewed, based on Performance Standards
  - Conducted at regular events (no special circumstances needed)

<https://www.scc-ares-races.org/credentials/>

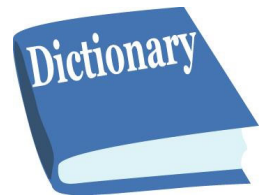


## Credential Timelines



- Progress at your own pace
- Most people will be able to achieve the following
  - First year: Type IV
  - Second year: At least one Type III
  - Third year: Another Type III and/or Type II
  - Fourth year: Another Type III and/or Type II and/or Type I
- In fact, many **active** amateur radio operators will be able to do this much faster if they desire.

## Mutual Aid Communicator (MAC) Endorsement



- An amateur radio operator that meets minimum requirements and is willing to help outside own city/agency when needed
  - Only called upon when not needed within own city/agency
- Must have at least a Type IV Credential:
  - Administrative: age, amateur radio license, transportation, ...
  - Training: ICS, “Intro to EmComm”, “Fundamentals of EmComm”, ...
  - Experience: nets, drills, public service events
  - Equipment: standard SCCo ARES/RACES go kit
  - Skill: demonstrated capability, commitment to excellence
  - Requires County DSW registration and a background check.
- Encouraged to earn role-specific credentials (Type III, II, I)

# “My Credentials” (Personal achievement record)

**Santa Clara County ARES®/RACES**  
Welcome, Herman (W6XRL4) (This isn't you? Then [log in...](#))

**My Credentials and Endorsements**

**County Credentials**  
Click on a credential level in the table below for more information

Evaluator	Field	Net Control	Packet	Shadow
	F1	N1	P1	S1
E2	F2	N2	P2	S2
E3	F3	N3	P3	S3

Communicator IV

**County Endorsements**

MAC County Fire County EOC Unit Leader

Color Key:  
Green: Completed  
Blue: Partially Completed  
Gray: Not Started

**Print Wallet Card**

[Print Wallet Card](#)

You must be logged into the Training and Events database to see your credential records.

Santa Clara County ARES/RACES Herman Munster W6XRL4	
<b>Credentials:</b>	
Evaluator	E2
Field Comms	F1
Net Control	N3
Packet Comms	P2
Shadow Comms	S1
<b>Endorsements:</b>	
Mutual Aid Comm	MAC
Fire Station Radio Oper	FRO
EOC Radio Operator	ERO
EOC RACES Unit Lead	RUL
<b>Expires: Jan 31, 20##</b>	

## Thank you for participating in ARES/RACES

- You are an ambassador to the public for SCCo ARES/RACES. How you perform reflects on all amateur radio operators.
- **Your Responsibilities before an event**
  - Learn your radio and other equipment.
  - Please keep your go-kit updated (everything working, batteries charged, etc.)
  - You are responsible for staying current with SCCo documentation (frequency lists, procedures, training material, forms, etc.).
  - Verify preparation and that everything is working before arriving at your assignment.
- **Your Responsibilities during an event**
  - You need to be trained and fully prepared to perform the duties assigned.
  - Do not take an assignment unless you have the confidence that you can provide dependable and reliable communication services to a served agency in benefit to the public for real and public service events.

## Your To Do List (so far)



- Become familiar with: <https://www.scc-ares-races.org>
- County and City DSW registration
- Inform family of Workers' Comp provisions
- Learn the nets and their usage
- Obtain Frequency lists (county, city); program your radio
- Prepare Go Kit, Review Performance Standards
- Learn mobilization, tracking, demobilization procedures
- Learn and use the ICS-214 Unit Activity Log
- **Learn Phonetics and Prowords**
- **Practice using the ICS 213 Message form**
- **Continued training, drills, public service events**
- **Work on earning your Type IV Credential**
- **Consider earning more Credentials and the MAC endorsement**

## Join SCCo Discussion Groups



### To Join:

- Visit the Announce group web page:  
<https://scc-ares-races.groups.io/g/announce>
- Follow the instructions listed under "To Join This Group"

### Purpose:

The main group is only used for announcements that are relevant to all SCCo ARES/RACES members. The actual group discussions take place in various sub-groups listed in the sub-groups menu.

All Santa Clara County ARES/RACES members are encouraged to join at least the main/Announce group to stay informed of major activities and events.

## Join SCCo Discussion Groups



### Some of the Subgroups:

<a href="#">Credential</a>	Announcements and discussion related to the Santa Clara County ARES/RACES Credentialing Program.
<a href="#">Equipment</a>	Discussion of and mutual user support for equipment used for Santa Clara County ARES/RACES activities.
<a href="#">MAC</a>	Announcements and discussion related to the Santa Clara County ARES/RACES Mutual Aid Communicator (MAC) Endorsement.
<a href="#">Training</a>	Discussion of any SCCo ARES/RACES training topic, including exercises and on-air practice. This group is moderated to help ensure that answers are correct. Questions posed will normally be answered by the instructor for that subject area.

For a complete list see:

<https://www.scc-ares-races.org/discuss-groups.shtml>

## Summary



- You should now be able to
  - Describe the Disaster Service Worker program, including your responsibilities as a participant
  - Describe the purpose and appropriate usage of the main Santa Clara County ARES/RACES nets
  - Properly submit a Mike-Mike report
  - Describe and execute the proper procedures for mobilization, tracking, and demobilization, including the use of the Resource Net
  - Utilize an ICS-205 to program your radio
  - Properly complete an ICS 214 Unit Activity Log form
  - Properly complete an ICS 213 Message Form



## Final Assignment

PLEASE COMPLETE THE CLASS EVALUATION  
WITHIN ONE WEEK.

TO GET COURSE CREDIT YOU NEED TO:

- A) ATTEND AT LEAST 90% OF THE CLASS
- B) PARTICIPATE IN CLASS
- B) COMPLETE THE CLASS EVALUATION

IF YOU DO THESE, YOU WILL GET CREDIT FOR  
THE COURSE.

# Online Class Evaluation

LOG INTO: [www.scc-ares-races.org/activities](http://www.scc-ares-races.org/activities)

CLICK ON: Submit Class Evaluation

**Home**  
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**Events**  
[List Events By Date](#)  
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[Create a New Event](#)  
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[List/Print an Event Roster](#)  
[Log Event Participation](#)  
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**Calendar of Events**  
 Show: Current events  Past events  Event Descriptions

**Training Net - Message Passing Practice**

Date:	Start:	Type:	Credential Credit?	Location:
02/16/21	8:30 PM	Other	No	Resource Net Repeaters

This is the monthly Message Passing Training Net held on the third Tuesday of each month. The training net will be held on the Resource Net ...

**ARES/RACES Communications Drill - CITY participation**

Date:	Start:	Type:	Credential Credit?	Location:
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## Thank You!

If you have questions or feedback about this or other training activities, you can join our Training discussion group.

<https://scc-ares-races.groups.io/g/training>

This is a moderated group.