USE AND DISTRIBUTION NOTICE

- Santa Clara County RACES authorization is granted to use and duplicate this material as-is, as long as this page and the copyright notices on each page are included, acknowledging Santa Clara County ARES/RACES as the holder of the copyright.
- Permission is granted to adapt this presentation to your needs as long as you acknowledge our copyright and include a note similar to "adapted with permission from Santa Clara County ARES/RACES."
- For additional information on training or any of our programs, send an email to: info@scc-ares-races.org





Fundamentals of Emergency Communications



Santa Clara County ARES®/RACES

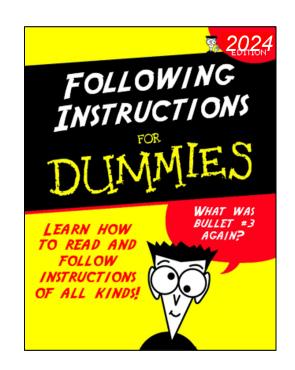
Last Updated: Oct 24, 2024

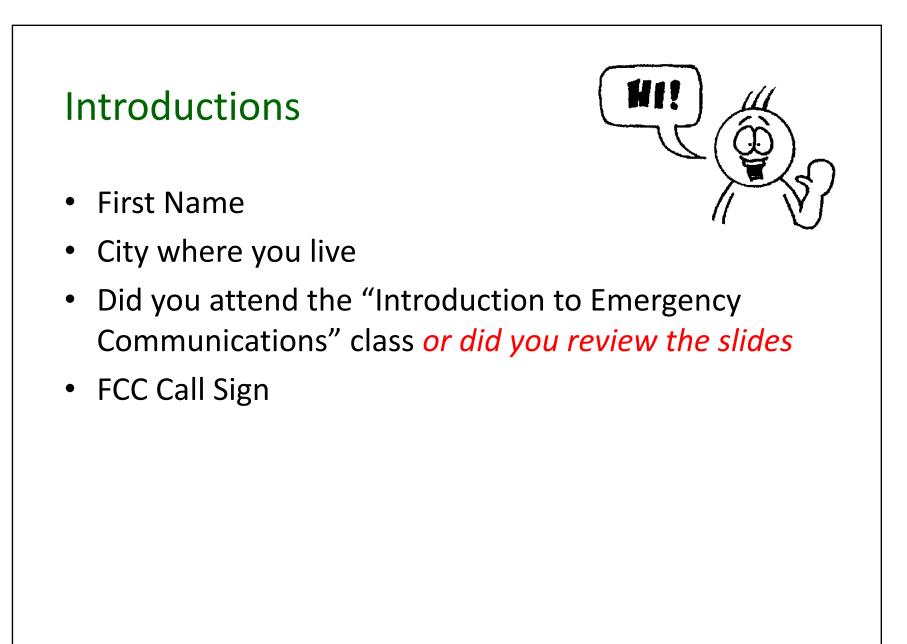
ARES and Amateur Radio Emergency Service are registered servicemarks of the American Radio Relay League, Incorporated and are used by permission.

Housekeeping

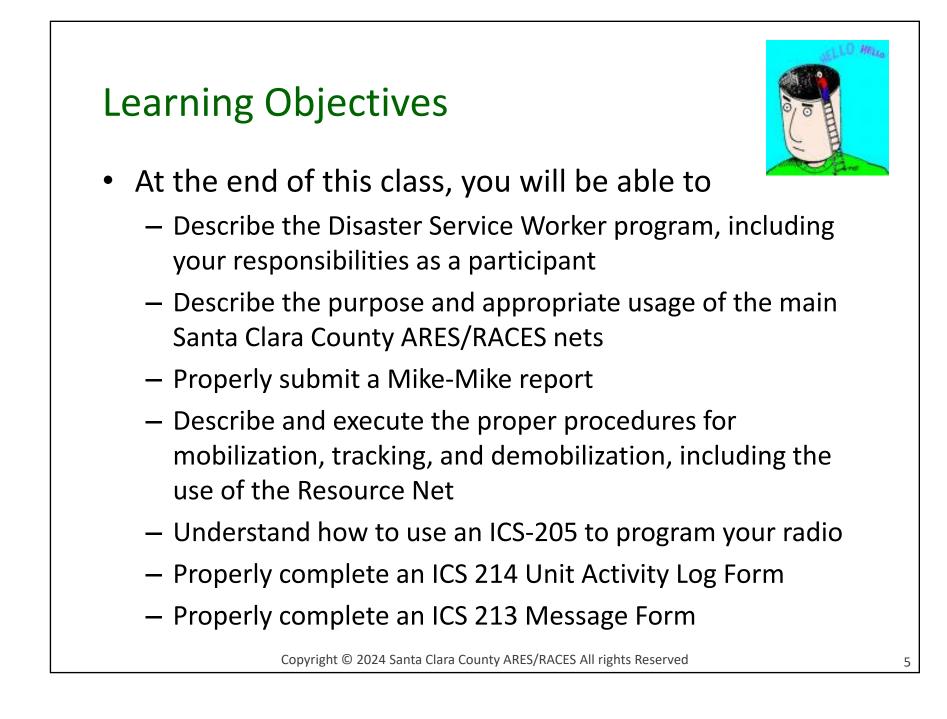
- Introductions
- Pen/pencil & paper
- Cell phones on silent or vibrate
- Side conversations
- Questions
- Breaks
- Restrooms
- In case of emergency
- No wandering or exploring other areas of the building.
- Assign a Tactical Call

Copyright $\ensuremath{\mathbb{C}}$ 2024 Santa Clara County ARES/RACES All rights Reserved





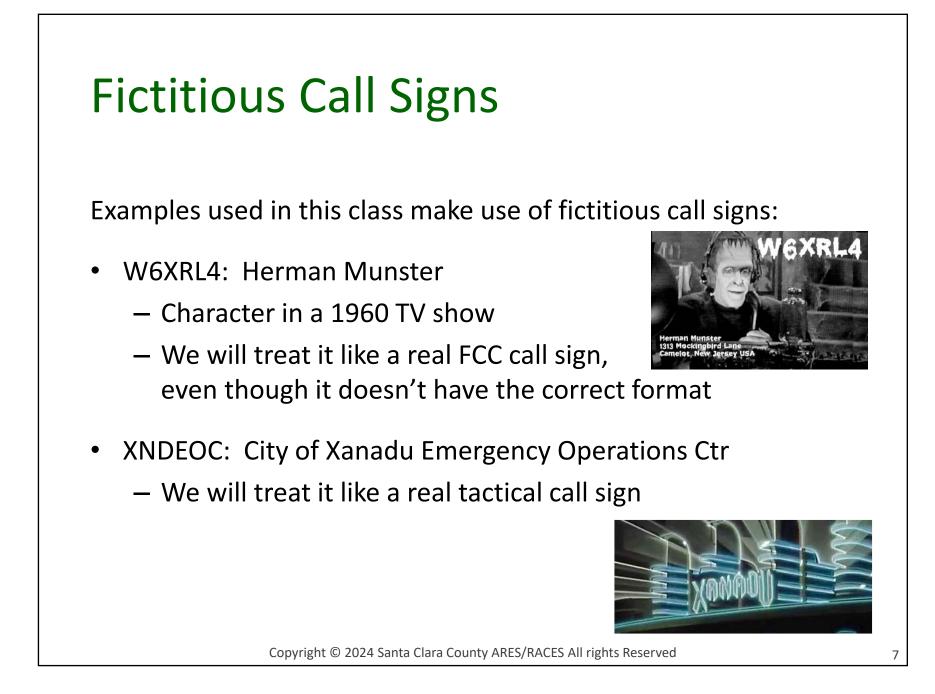
4



6



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



8

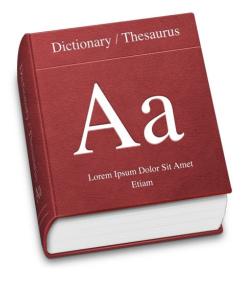


Registration and Rules

DISASTER SERVICE WORKER

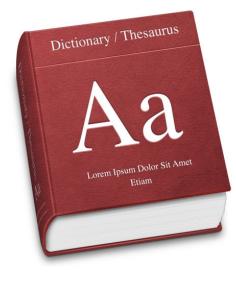
What is Disaster Service?

 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.

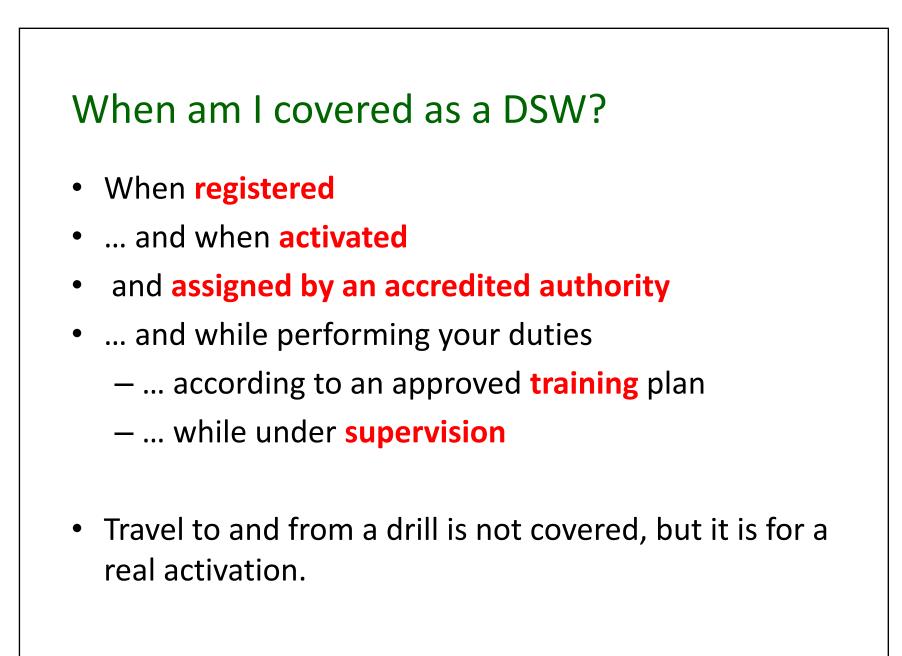


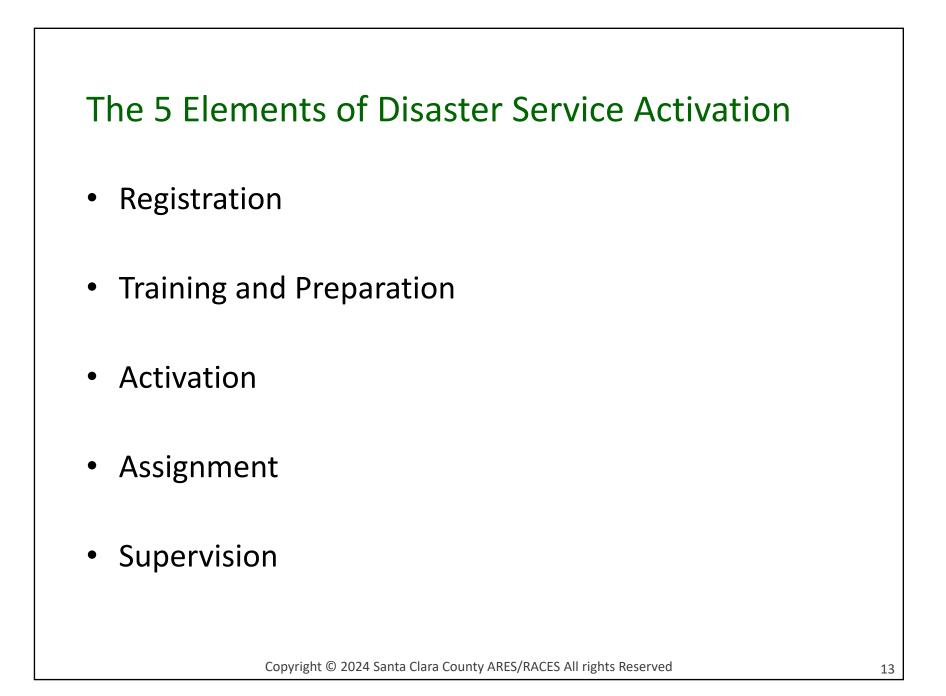


"... any natural person registered by an accredited Disaster Council ... for the purpose of engaging in disaster service ... without pay or other consideration."





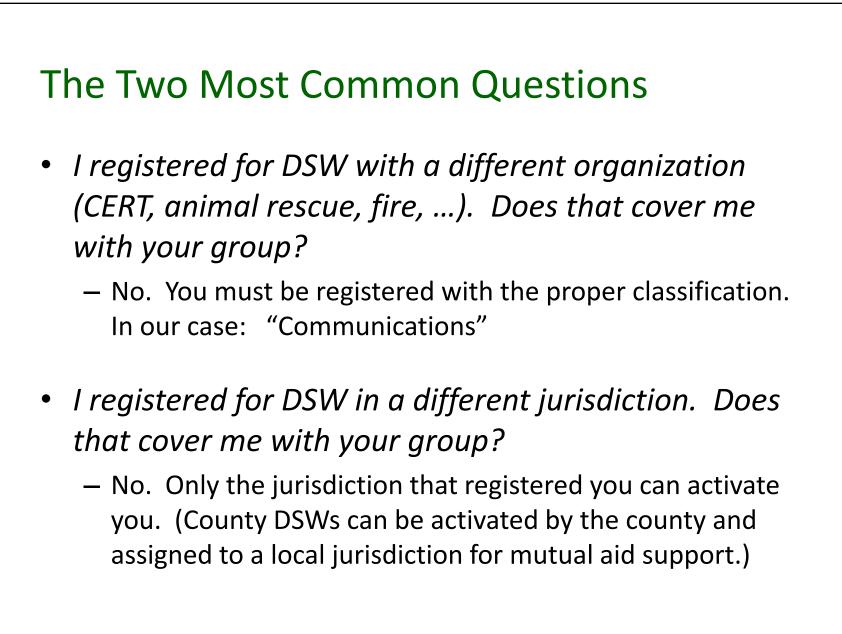




Registration



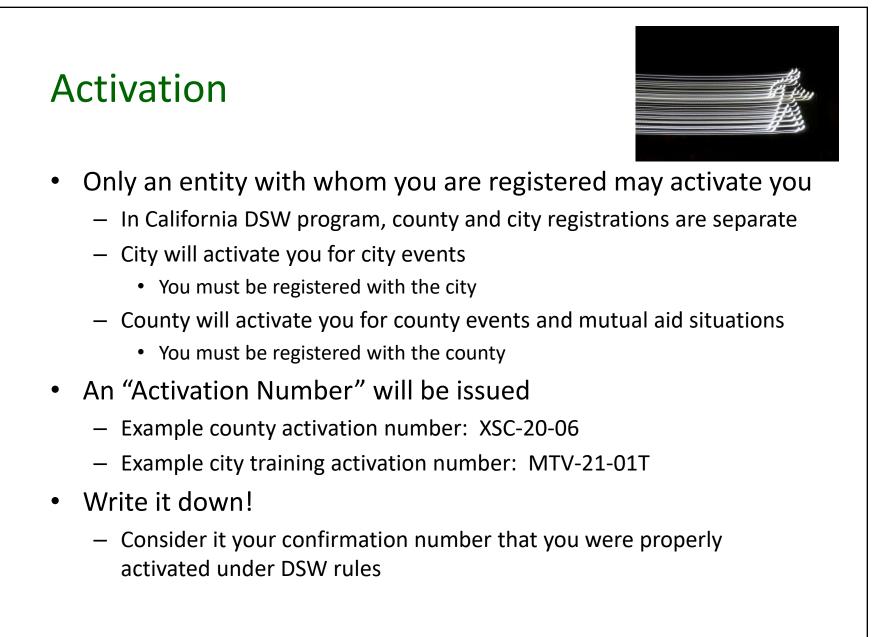
- Only an "authorized person" may register you
 - For county: Office of Emergency Management (OEM) official
 - For city: Appropriate city officials (ask your EC who/how)
- You must have a current DSW registration on file with the entity that is activating you
 - County DSW required for county drills 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



Training



- Everyone is responsible for their own training
- Santa Clara County ARES/RACES:
 - <u>http://www.scc-ares-races.org</u> (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.



Assignment

- Usually, assignment is made by radio
 - On Resource Net (county)
 - On city net (city)



• Location will be given by common name, address

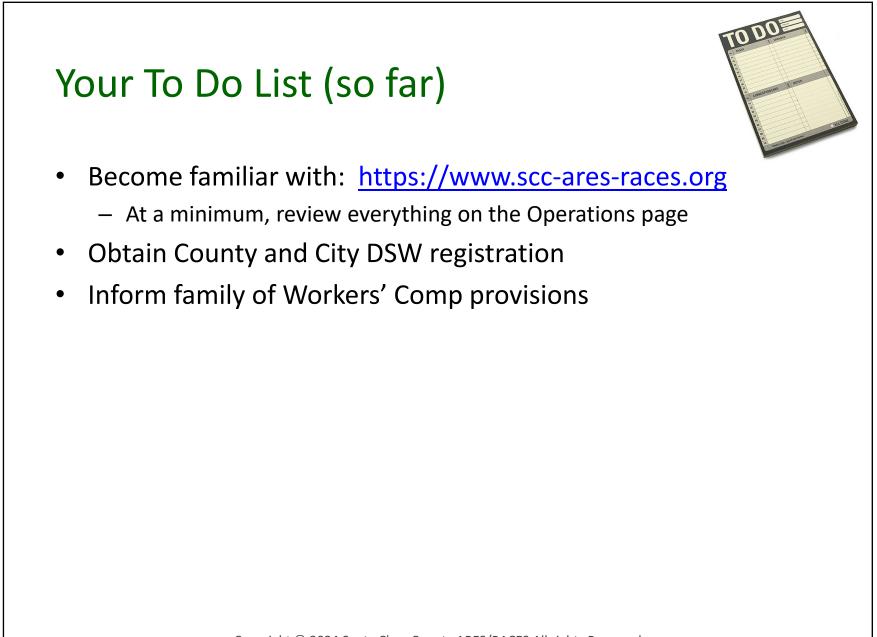
e.g., Mountain View Fire Station 4; 229 N. Whisman Rd.

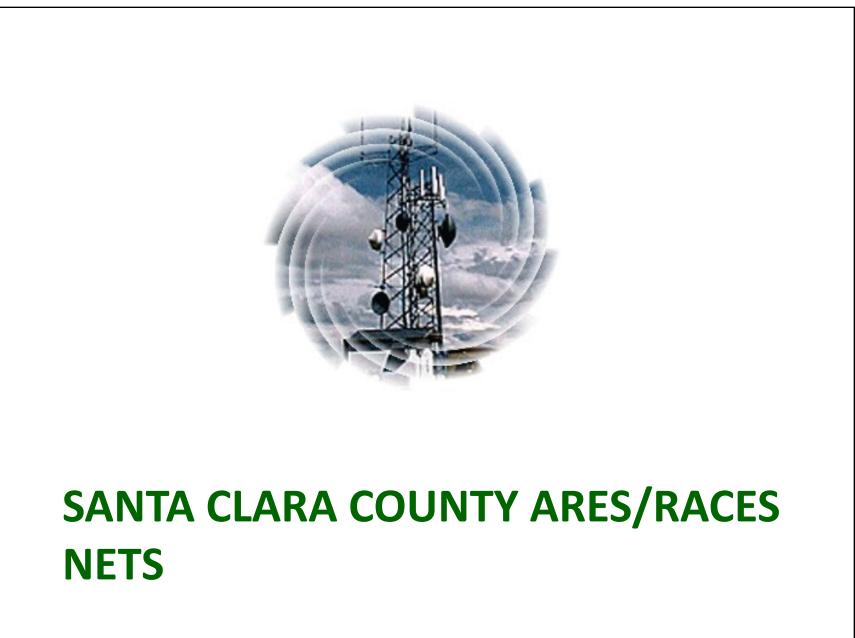
- Write it down!
- Have an <u>off-line</u> map available at all times!
 "Google Maps" or "Here WeGo"

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

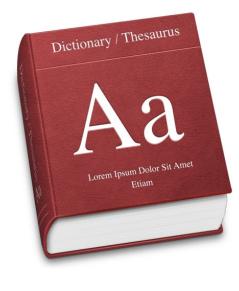
Supervision You must be under continuous supervision while on your assignment - You must be reachable by radio at all times - You must have a radio that can be operated with reasonable range while you are in your car, traveling to and from your destination Get a magnetic mount antenna and headset! Know which repeaters to use from which locations In particular, travel to Southern part of county requires switching repeaters and bands Copyright © 2024 Santa Clara County ARES/RACES All rights Reserved 19

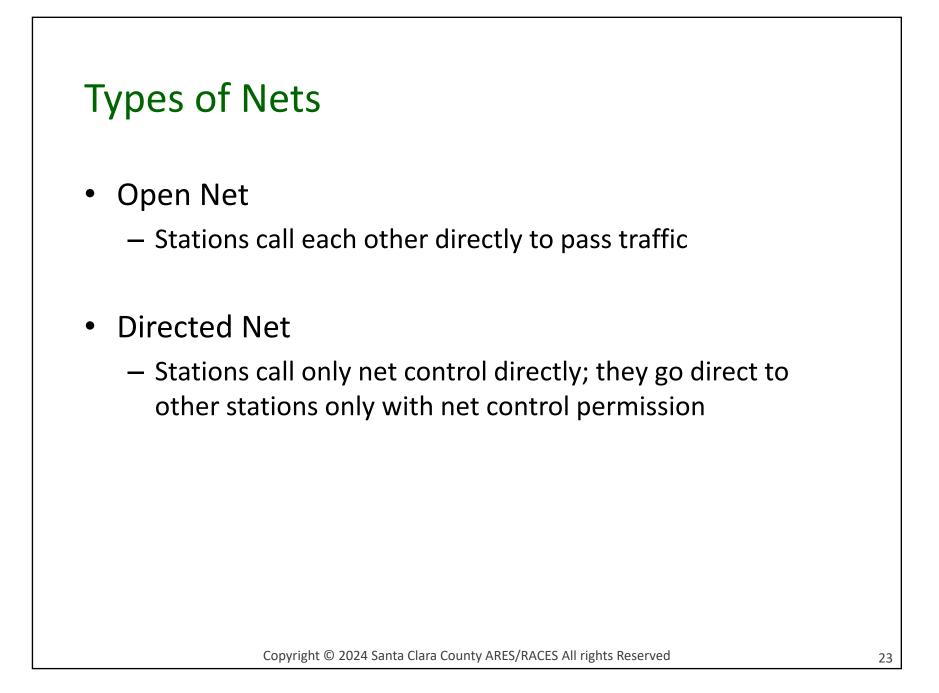






 An Amateur Radio Net exists whenever 3 or more operators are in simultaneous contact with each other for the purpose of exchanging information or passing operational or official (3rd Party) traffic.





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
OCO MILLOMANDED		ricqueriej	LIGE

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

COUNTY						Re	viewed: 0	7- Jan-24
Operational Area	Channel Name	Resource Name	R/S	Frequency	OS	PL	Notes	Updated
County	Message Net	W6TI	R	147.360	+	110.9		11-Feb-11
County	Message Net Alt (Linked)	K6FB	R	145,450		100	н	28-Jun-12
County	Message Net Alt (Linked)	K6FB	R	442.575	+	100	н	28-Jun-12
County	Command	W6GGF	R	442.500	+	100		16-May-1
County	Resource, Primary	AA6BT	R	146.115	+	100	D	11-Feb-1
County	Resource, North	W6ASH	R	145.270		100	E	11-Feb-1
County	Resource Alt, North	W6ASH	R	440.800	+	100	E	11-Jul-17
County	Resource. South	K6SNY	R	443.275		107.2	G.T	25-Aug-2
County	Hospital Net	NENEL	R	145,230		100	0,1	11-Feb-1
County	NTS	WR6ABD	R	146.640		162.2		11-Feb-1
220 Simplex: 223.4		mondu	K	140.040	-	102.2		11-1 00-1
	000, 446.500, 446.000 (National Simp	lex Frequency)	_					
		in the queries f						
RED CROSS, SILIC	ON VALLEY CHAPTER					Re	viewed:	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-1
Red Cross SVC	Command Alt	WB60QS	R	444.600	+	141.3		11-Feb-1
Red Cross SVC	Tactical 1	KB6FEC	R	147,165	+	162.2		11-Feb-1
Red Cross SVC	Tactical 2	WG6LEE	R	147.675		162.2		23-Nov-2
			R	146.760	-	151.4		11-Feb-1
	Tection Alt							
Red Cross SVC	Tactical Alt	WB60QS				100		11 Eab 1
Red Cross SVC Red Cross SVC	link	WB6OQS	R	224.260	-	100		
Red Cross SVC Red Cross SVC Red Cross SVC	link Talk Around	WB6OQS WB6RNH	R R	224.260 444.300	+	100 162.2		11-Feb-11
Red Cross SVC Red Cross SVC Red Cross SVC	link	WB6OQS	R	224.260	-			11-Feb-11
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All	link Talk Around	WB6OQS WB6RNH	R R	224.260 444.300	-	162.2	inund 1	11-Feb-1 11-Feb-1
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL	link Talk Around All Areas	WB6OQS WB6RNH Simplex	R R S	224.260 444.300 147.420	+	162.2 Rev		11-Feb-11 11-Feb-11 7-May-24
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area	link Talk Around All Areas Channel Name	WB6OQS WB6RNH Simplex Resource Name	R R S	224.260 444.300 147.420 Frequency	-	162.2	iewed: 1 Notes	11-Feb-1 11-Feb-1 7-May-24 Updated
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell	link Talk Around All Areas Channel Name Tactical 1	WB6OQS WB6RNH Simplex Resource Name Simplex	R R S R/S S	224.260 444.300 147.420 Frequency 146.565	+ 0\$	162.2 Rev PL		11-Feb-11 11-Feb-11 7-May-24 Updated 18-May-2
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell Campbell	link Talk Around All Areas Channel Name Tactical 1 Tactical 2	WB6OQS WB6RNH Simplex Resource Name Simplex NO1PC	R R S R/S S R	224.260 444.300 147.420 Frequency 146.565 442.175	+	162.2 Rev	Notes	Updated 18-May-2 18-May-2
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell Campbell	link Talk Around All Areas Channel Name Tactical 1	WB6OQS WB6RNH Simplex Resource Name Simplex	R R S R/S S	224.260 444.300 147.420 Frequency 146.565	+ 0\$	162.2 Rev PL		11-Feb-11 11-Feb-11 7-May-24 Updated 18-May-2
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell	link Talk Around All Areas Channel Name Tactical 1 Tactical 2	WB6OQS WB6RNH Simplex Resource Name Simplex NO1PC	R R S R/S S R	224.260 444.300 147.420 Frequency 146.565 442.175	+ 0\$	162.2 Rev PL 100	Notes	11-Feb-11 11-Feb-11 7-May-24 Updated 18-May-2 18-May-2 18-May-2
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell CUPERTINO	link Talk Around All Areas Channel Name Tactical 1 Tactical 2 Tactical 3	WB6OQS WB6RNH Simplex Resource Name Simplex NOTPC Simplex	R R S R/S S R S	224.260 444.300 147.420 Frequency 146.565 442.175 147.585	+ 05	162.2 Rev PL 100	Notes C	11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-2 18-May-2 9-00000000000000000000000000000000000
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell Campbell CUPPERTINO Operational Area	Ink Talk Around All Areas Channel Name Tactical 1 Tactical 2 Tactical 3 Channel Name	WB60QS WB6RNH Simplex Resource Name Simplex NO1PC Simplex Resource Name	R/S S R/S S R/S	224.260 444.300 147.420 Frequency 146.565 442.175 147.585 Frequency	+ 0\$	162.2 Rev PL 100 Re PL	Notes C Notes	11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-2 18-May-2 pending Updated
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell Campbell Cupernino Operational Area Cupertino	link Taik Around Taik Around All Areas Channel Name Tactical 1 Tactical 2 Tactical 3 Channel Name Resource Net Alt (TAC1)	WB6OOS WB6RNH Simplex Resource Name Simplex Simplex Resource Name Simplex	R/S S R/S S R/S S	224.260 444.300 147.420 Frequency 146.565 442.175 147.585 Frequency 147.570	+ 05	162.2 Rev PL 100 Rev PL 151.4	Notes C	11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-2 18-May-2 pending Updated 11-Feb-1
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell CUPERTINO Operational Area Cupertino Cupertino	Ink Talk Around All Areas Channel Name Tactical 1 Tactical 2 Tactical 3 Channel Name Resource Net Alt (TAC1) Message Net (TAC2)	WBGOGS WBGRNH Simplex Resource Name Simplex NO1PC Simplex Resource Name Simplex	R/S S R/S S R/S S R/S S S	224.260 444.300 147.420 Frequency 146.565 442.175 147.585 Frequency 147.570 146.460	+ 05 + 05	162.2 Rev PL 100 Re PL 151.4 151.4	Notes C Notes	11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-2 18-May-2 18-May-2 pending Updated 11-Feb-1 11-Feb-1
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell CUPERTINO Operational Area Cupertino Cupertino	Ink Taik Around All Areas Channel Name Tactical 1 Tactical 2 Tactical 3 Channel Name Resource Net Alt (TAC1) Message Net (TAC2) Resource Net (TAC2)	W86003 W86RNH Simplex Resource Name Simplex NOTPC Simplex Resource Name Simplex Simplex Simplex	R/S S R/S S R/S S R/S S R/S	224.260 444.300 147.420 Frequency 146.565 442.175 147.585 Frequency 147.570 146.460 440.150	+ 05	162.2 162.2 PL 100 PL 100 PL 151.4 151.4 151.4 100	Notes C Notes	11-Feb-1 11-Feb-1 -May-24 Updated 18-May-2 19-May-2
Red Cross SVC Red Cross SVC Red Cross VC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell CUPERTINO Operational Area Cupertino Cupertino Cupertino Cupertino	link Tak Around All Areas Channel Name Tactical 1 Tactical 2 Tactical 2 Tactical 3 Channel Name Resource Net Alt (TAC1) Message Net (TAC2) Resource Net Direct (TAC4)	WB6OQS WB6RNH Simplex Resource Name Simplex Bimplex Resource Name Simplex Simplex Simplex W6TDM simplex	R/S S R/S S R/S S R/S S R S S S S S S S	224.260 444.300 147.420 Frequency 146.565 442.175 147.585 Frequency 147.570 146.460 440.150	+ 05 + 05	162.2 Rev PL 100 Rev PL 151.4 151.4 151.4 100 100	Notes C Notes 2	11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino	Ink Taik Around All Areas Channel Name Tractical 1 Tractical 2 Tractical 2 Tractical 3 Channel Name Resource Net AI (TAC1) Message Net (TAC2) Resource Net Direct (TAC4) General Field (TAC4)	WBSOOS WBSRNH Simplex Resource Name Simplex NOTPC Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex	R R S R/S S R S S R S S S S S S S S S S	224.260 444.300 147.420 Frequency 146.565 442.175 147.585 Frequency 147.570 146.460 440.150 440.150	+ 05 + 05	162.2 162.2 PL 100 100 151.4 151.4 100 100 151.4	Notes C Notes	11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 19-May-2 19-May-
Red Cross SVC Red Cross SVC Red Cross VC Red Cross VC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino	link Tak Around All Areas Channel Name Tactical 2 Tactical 2 Tactical 2 Tactical 3 Channel Name Resource Net Alt (TAC1) Message Net (TAC2) Resource Net Direct (TAC4) General Field (TAC5) General Field (TAC5)	WB6OOS WB6RNH Simplex Resource Name Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex	R/S S R/S S R/S S R/S S S S S S S S S S	224.260 444.300 147.420 Frequency 146.565 442.175 147.585 Frequency 147.570 146.460 440.150 441.000 147.585	* 05 * 05	162.2 162.2 PL 100 100 151.4 151.4 100 100 151.4 151.4	Notes C Notes 2	11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CompBelL Operational Area Campbell Campbell Campbell Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino	Ink Talk Around All Areas Channel Name Tractical 1 Tractical 2 Tractical 2 Tractical 3 Channel Name Resource Net Alt (TAC1) Message Net (TAC2) Resource Net (TAC3) General Field (TAC5) General Field (TAC5) General Field (TAC5)	WBGOGS WBGRNH Simplex Simplex NO1PC Simplex Resource Name Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex	R/S S R/S S R/S S R/S S R/S S R S S R S R	224.260 444.300 147.420 Frequency 146.565 442.175 147.585 Frequency 147.570 146.460 440.150 440.150 147.585	+ 05 + 05	162.2 Rey PL 100 100 Rey PL 151.4 15	Notes C Notes 2	11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 11-Feb-1 11-Feb-1 11-Feb-1 11-Feb-2 9-Oct-17 21-Nov-2 21-Nov-2 21-Nov-2
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell Campbell Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino	link Tak Around All Areas Channel Name Tactical 2 Tactical 2 Tactical 2 Tactical 3 Channel Name Resource Net Alt (TAC1) Message Net (TAC2) Resource Net Direct (TAC4) General Field (TAC5) General Field (TAC5)	WB6OOS WB6RNH Simplex Resource Name Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex	R/S S R/S S R/S S R/S S S S S S S S S S	224.260 444.300 147.420 Frequency 146.565 442.175 147.585 Frequency 147.570 146.460 440.150 441.000 147.585	* 05 * 05	162.2 162.2 PL 100 100 151.4 151.4 100 100 151.4 151.4	Notes C Notes 2	11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 11-Feb-1 11-Feb-1 11-Feb-1 11-Feb-2 9-Oct-17 21-Nov-2 21-Nov-2 21-Nov-2
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CompBell Compbell Campbell Campbell Campbell Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino Cupertino	Ink Talk Around All Areas Channel Name Tractical 1 Tractical 2 Tractical 2 Tractical 3 Channel Name Resource Net Alt (TAC1) Message Net (TAC2) Resource Net (TAC3) General Field (TAC5) General Field (TAC5) General Field (TAC5)	WBGOGS WBGRNH Simplex Simplex NO1PC Simplex Resource Name Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex	R/S S R/S S R/S S R/S S R/S S R S S R S R	224.260 444.300 147.420 Frequency 146.565 442.175 147.585 Frequency 147.570 146.460 440.150 440.150 147.585	* 05 * 05	162.2 Rev PL 100 100 151.4 151.4 151.4 151.4 151.4 151.4	Notes C sviewed: p Notes 2 R	11-Feb-1 11-Feb-1 -May-24 Updated 18-May-2
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell Campbell Cupertino	Ink Tak Around All Areas Channel Name Tactical 1 Tactical 2 Tactical 2 Tactical 3 Channel Name Resource Net All (TAC1) Message Net (TAC2) Resource Net Direct (TAC4) General Field (TAC5) General Field (TAC5) Command Net (TAC7) Command Net (TAC7) Command Net (TAC8)	WB6OOS WB6RNH Simplex Simplex Simplex NOTPC Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex	R/S S S S S S S S S S S S S S S S S S S	224 280 444.300 147.420 Frequency 146.565 442.175 147.585 Frequency 147.570 146.460 440.150 440.150 147.585 442.000 442.000	* • • • •	162.2 Rev PL 100 100 151.4 151.	Notes C wiewed: 2 R R	11-Feb-1 11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 19-May-2 11-Feb-1 11-Feb-1 11-Feb-1 11-Feb-2 9-Oct-17 21-Nov-2 21-Nov-
Red Cross SVC Red Cross SVC Red Cross VC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell Cupertino	Ink Talk Around All Areas Channel Name Tactical 1 Tactical 1 Tactical 2 Tactical 3 Channel Name Resource Net Alt (TAC1) Message Net (TAC2) Resource Net (TAC2) General Field (TAC5) General Field (TAC5) Command Net (TAC3) Channel Name	WB6OOS WB6RNH Simplex Resource Name Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex	R/S S R/S S R S S S S S S S S S R R S S S R R	224 280 444 300 147 420 Frequency 146 565 442 175 147 570 146 565 442 175 147 570 146 565 442 175 147 570 146 565 442 100 440 150 440 150 440 150 441 500 442 000 442 000 Frequency Frequency	* 05 * 05	162.2 Rev PL 100 100 151.4 151.4 151.4 151.4 151.4 151.4	Notes C sviewed: p Notes 2 R	11-Feb-1 11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 19-Oct-17 21-Nov-2 21-Nov
Red Cross SVC Red Cross SVC Red Cross SVC Red Cross VC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell Cupertino Cuperino Cupertino Cupertino Cupertino Cup	Ink Tak Around All Areas Channel Name Tactical 1 Tactical 2 Tactical 2 Tactical 3 Channel Name Resource Net AI (TAC1) Message Net (TAC2) Resource Net Orient (TAC4) General Field (TAC5) General Field (TAC5) General Field (TAC5) Command Net (TAC7) Command Net (TAC7) Command Net (TAC8)	WBSOOS WBSRNH Simplex Binglex Simplex NOTPC Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex	R/S S R/S S R/S S S S S R S S S S S S S	224 280 444.300 147.420 Frequency 146.565 442.175 147.575 147.575 146.460 440.150 440.150 440.150 440.150 441.000 442.000 Frequency 147.855	* • • • •	162.2 Rev PL 100 100 151.4 151.	Notes C wiewed: 2 R R	11-Feb-1 11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 19-May-1 11-Feb-1 11-Feb-1 11-Feb-1 11-Feb-2 21-Nov-
Red Cross SVC Red Cross SVC Red Cross VC Red Cross - All CAMPBELL Operational Area Campbell Campbell Campbell Cupertino	Ink Talk Around All Areas Channel Name Tactical 1 Tactical 1 Tactical 2 Tactical 3 Channel Name Resource Net Alt (TAC1) Message Net (TAC2) Resource Net (TAC2) General Field (TAC5) General Field (TAC5) Command Net (TAC3) Channel Name	WB6OOS WB6RNH Simplex Resource Name Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex Simplex	R/S S R/S S R S S S S S S S S S R R S S S R R	224 280 444 300 147 420 Frequency 146 565 442 175 147 570 146 565 442 175 147 570 146 565 442 175 147 570 146 565 442 100 440 150 440 150 440 150 441 500 442 000 442 000 Frequency Frequency	* • • • •	162.2 Rev PL 100 100 151.4 151.	Notes C wiewed: 2 R R	11-Feb-1 11-Feb-1 11-Feb-1 7-May-24 Updated 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 18-May-2 19-Oct-17 21-Nov-2 21-Nov

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

Resource Net

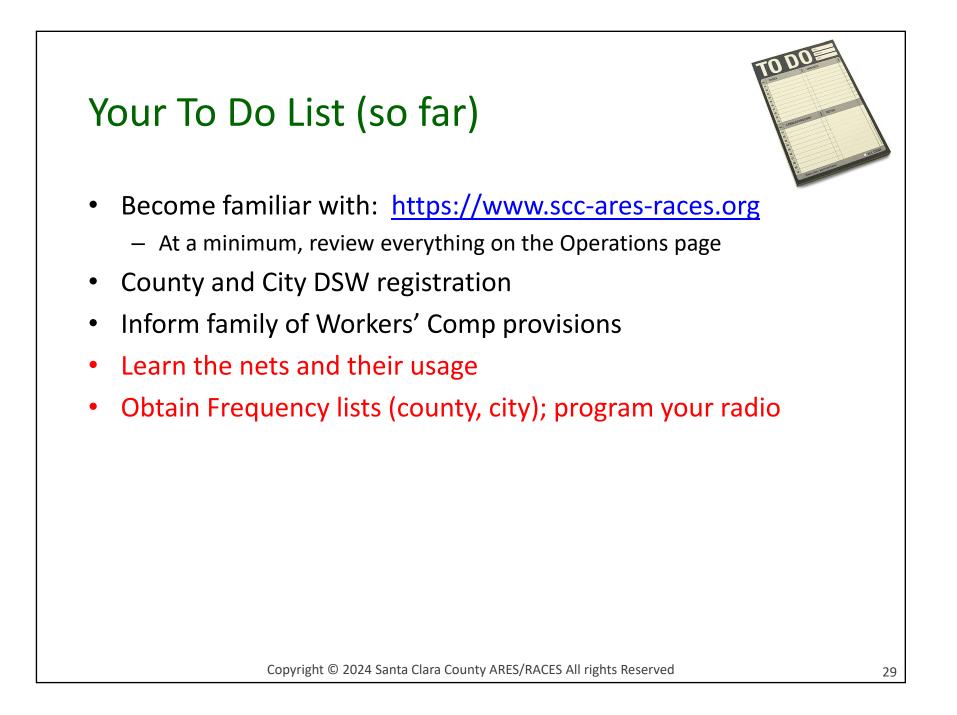
- Usually the first net activated at the county level
- Directed net
- Three levels of operation
 - Level 1: Information gathering (initial damage reports)
 - Earthquake Modified Mercalli ("Mike-Mike") reports; flood levels; power; etc.
 - Level 2: City EOC check-ins and referral to city tactical nets
 - 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
 - 3rd 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 (<u>https://www.scc-ares-races.org</u>)
 - 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 3rd 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





The County Resource Net in Action

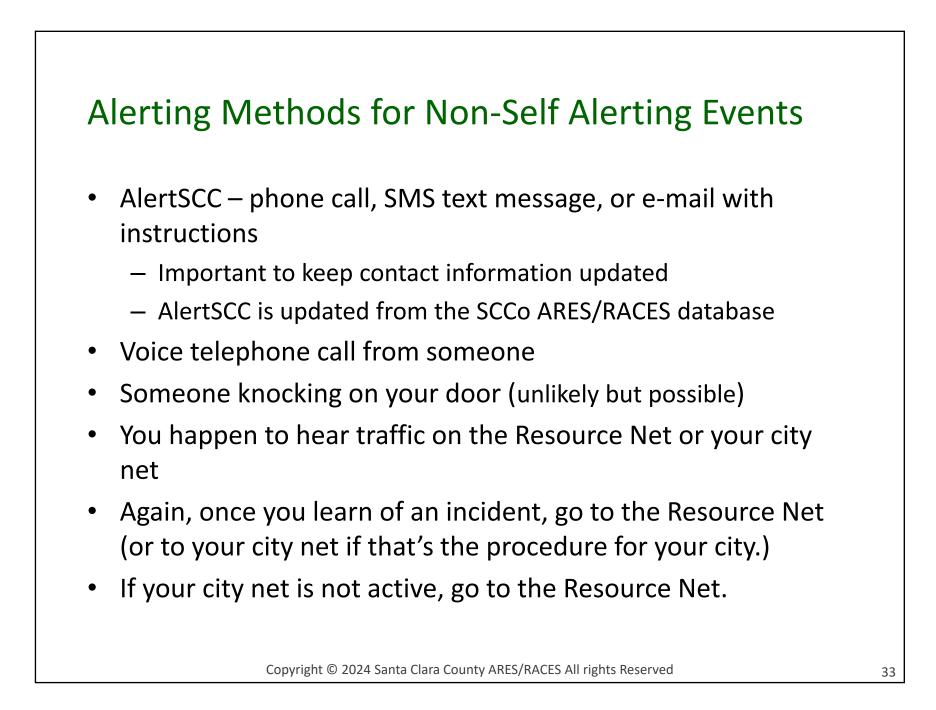
ALERTING, MOBILIZATION, TRACKING, DEMOBILIZATION

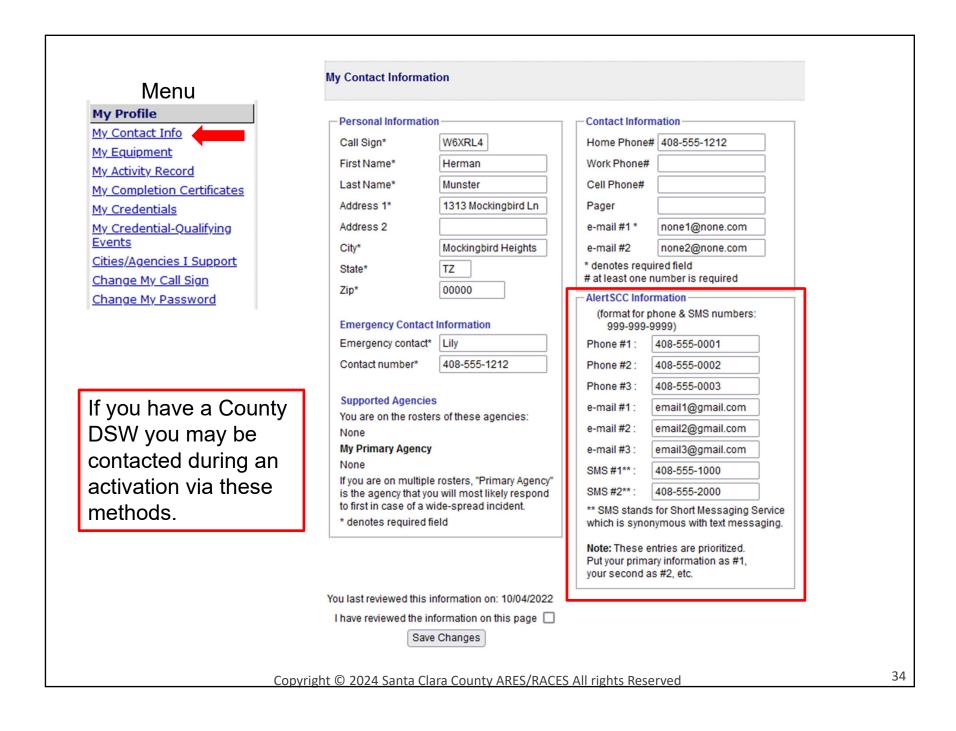


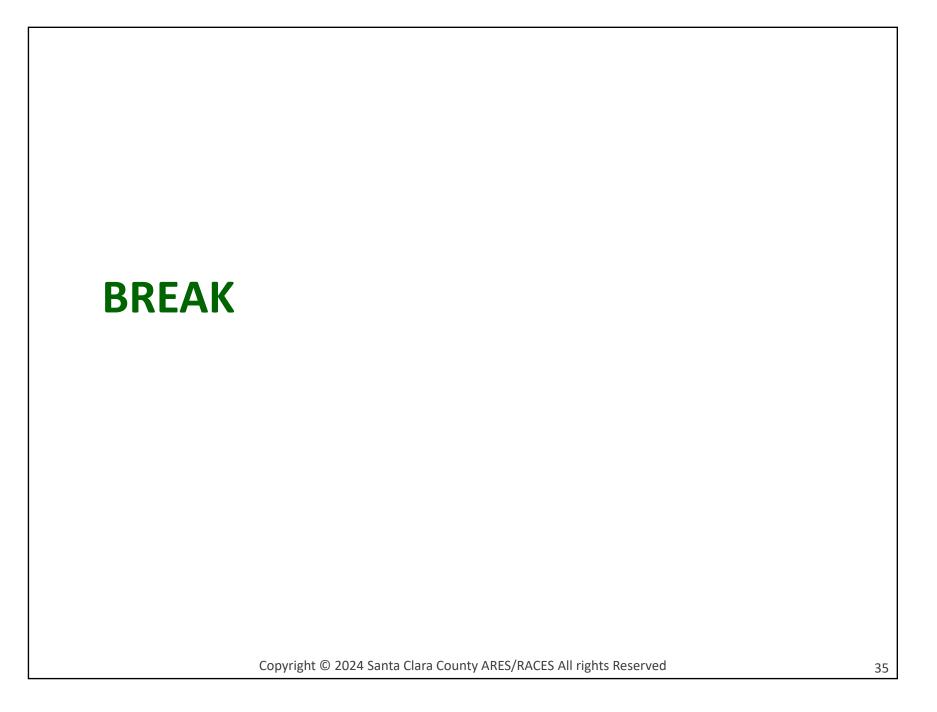
- Alerting
 - You are alerted when you become aware of a situation where Amateur Radio support may be requested
 - You can monitor your radio and check into a net
 - You are <u>not</u> authorized to do anything or go anywhere unless the served agency has pre-authorized your role
- Activation
 - A government 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.)







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

Copyright © 2024 Santa Clara County ARES/RACES All rights Reserved

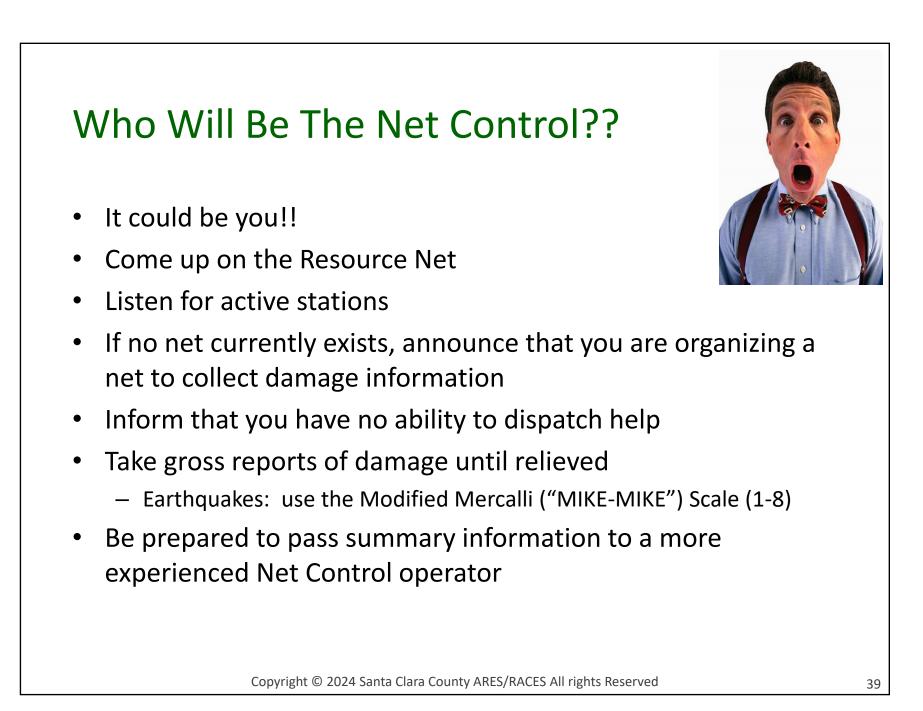


37



- 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 ...





40

Mike-Mike Report Summary Form - Example 1. Incident Name (if any): SCCo ARES/RACES 2. Incident Date / Time: Classroom Exercise Todays dute & Time Mike-Mike Summary 4. Mike-Mike Tally (use tick/tally marks) 5. Reporting Totals (numerical) 3. City MM-1 MM-2 MM-3 MM-4 MM-5 MM-6 MM-7 MM1-3 MM4 MM5 MM6 MM7 MM8 MM-8 Campbell 11 2 2 11 MX 5 Cupertino 111 3 2 11 MU 5 Gilroy 4 111 3 1111 Loma Prieta Los Altos 2 11 11 2 Los Altos Hills 111 111 5 2 Los Gatos 1 Milpitas 11 2 1 MI Monte Sereno 11 2 1 1 Morgan Hill 11 1111 4 2 Mountain View NASA/Ames Palo Alto 3 111 1 1 111 San Jose INI 11 1 3 5 1 Santa Clara 11 111 3 2 Saratoga 111 2 11 3 Stanford Univ 11 2 1 IN/ Sunnyvale 2 5 11 1 Other: 6. Prepared by (Name, Call Sign) 7. Date & Time Prepared Page 1 of 1 Herman Munster WEXRLY SCCo ARES/RACES Mike-Mike Summary (rev: 05-Jul-2018) https://www.scc-ares-races.org/operations.shtml Copyright © 2024 Santa Clara County ARES/RACES All rights Reserved



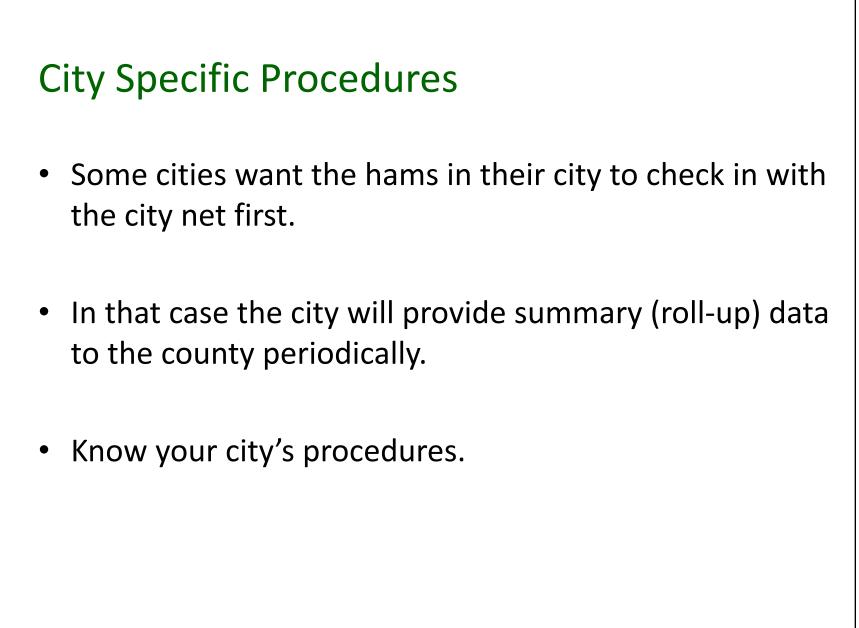
Net Control

- "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 <u>only</u>" ... "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



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





- 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 ...





- 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.





- 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 checkin with county – they may have alternative instructions
- Check-in to County Resource Net Level 3 <u>only</u> 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)







- 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

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.

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 peaker/mic/earbud, or similar recommended
- R Cell phone & charger and/or cigarette lighter adapt. X Charged batteries for 12 hours (min. 3000 mAh) [Note 2] O FRS/GMRS Radio X Power cord adapters - connect HT to power sources: O Satellite phone
- 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

Santa Clara County ARES®/RACES

Revised: 10-Jun-2021

R Small backpack, vest, chest harness or other similar

25W minimum

 Powerpoles Cigarette lighter socket

R Spare fuses

Antennas:

Dual-receive, cross-band repeat

R Radio user manual or cheat sheet

handswitch or footswitch PTT

· Vehicle battery terminals

O Extension cord, 3-wire, 50-100 ft.

R 2m/70cm high gain HT antenna

O USB flash drive (i.e. USB key)

O Shade cover for display

Other Communications Gear:

R Nylon Tie-Wraps/wire ties

R Small multi-tool or tool kit

O Cables: TNC to radio; TNC to PC

pole or other)

Packet Equipment:

O Portable printer

R Powerpole splitter or fused distribution panel

R Coax adapter: connect mobile radio to coax

R Extension cord, 3-wire, 3-6 ft., multi-outlet

BNC plug (male) & BNC socket (female)

UHF plug (PL-259) & UHF socket (SO-239)

R Portable mast (elevates antenna base min, 10 ft.)

R Window clip antenna mount (for non-metallic vehicles)

O TNC (may be hardware, software or built into radio)

O Entire station can operate for min. 1 hr on battery

R Tripod or other self-supporting base for mast

O Laptop with Outpost and PacFORMS installed

method for carrying HT while operating portable Mobile or Stationary Radio Equipment:

R 2m/70cm mobile radio (separate/removable from vehicle)

R Headset (stereo recommended for VFO per ear) w/ inline,

R Battery for 12-hours operation (20 Ah min.; 26 Ah rec.)

R Power cord adapters – connect mobile to power sources:

R Min. 25 add'I feet of 50 Ohm coaxial cable w/barrel conn.

X Coax adapters: connect coax to existing antenna jack:

• N-type plug (male) and N-type socket (female)

X 2m/70cm dual-band magnetic or window mount antenna

R 2m/70cm dual-band portable base antenna (e.g. roll-up J-

Page 1 of 4

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

Tools:

R Duct tape

R Electrical tape

R Utility knife

Assignmen



- 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



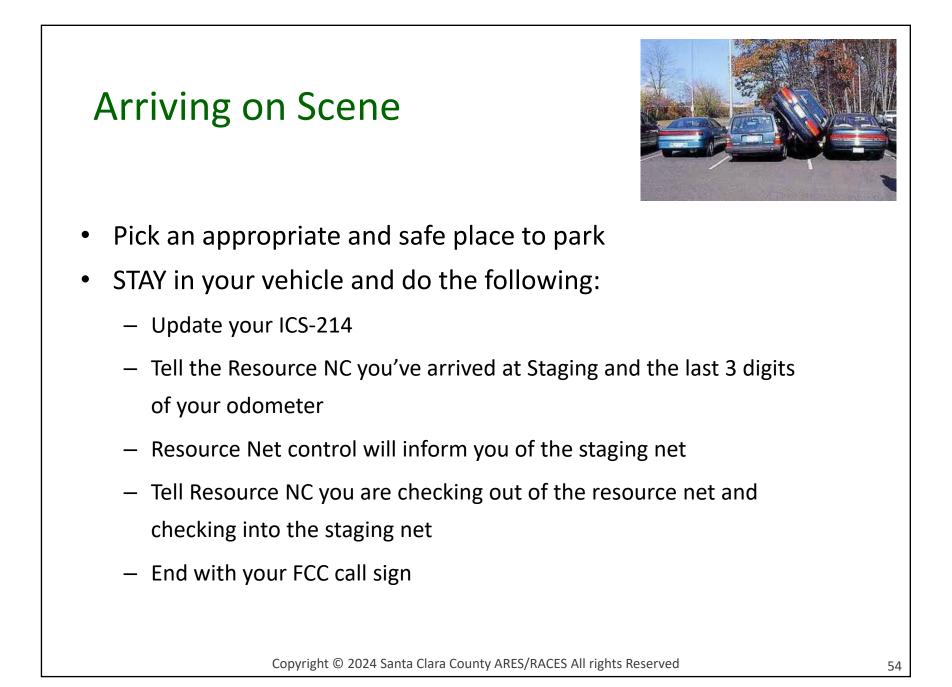
- Drive safely, do not speed, follow all applicable laws
- Do not drive off-road unless trained and authorized to do so
- Do not go anywhere that you feel is not safe
- Professionally and responsibly withdraw from situations that become risky; advise net control and/or served agency promptly
- Observe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

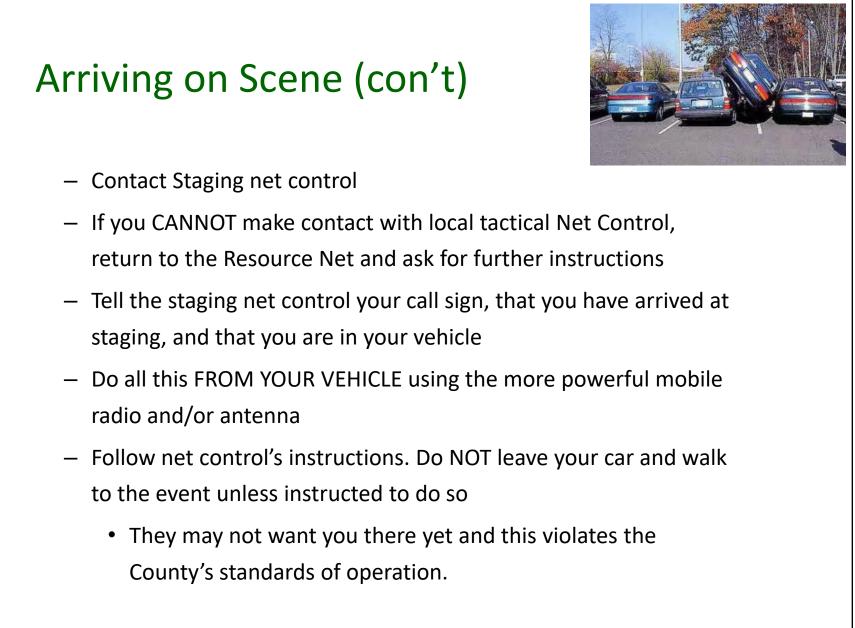
Distracted Driving Law

- 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.





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!





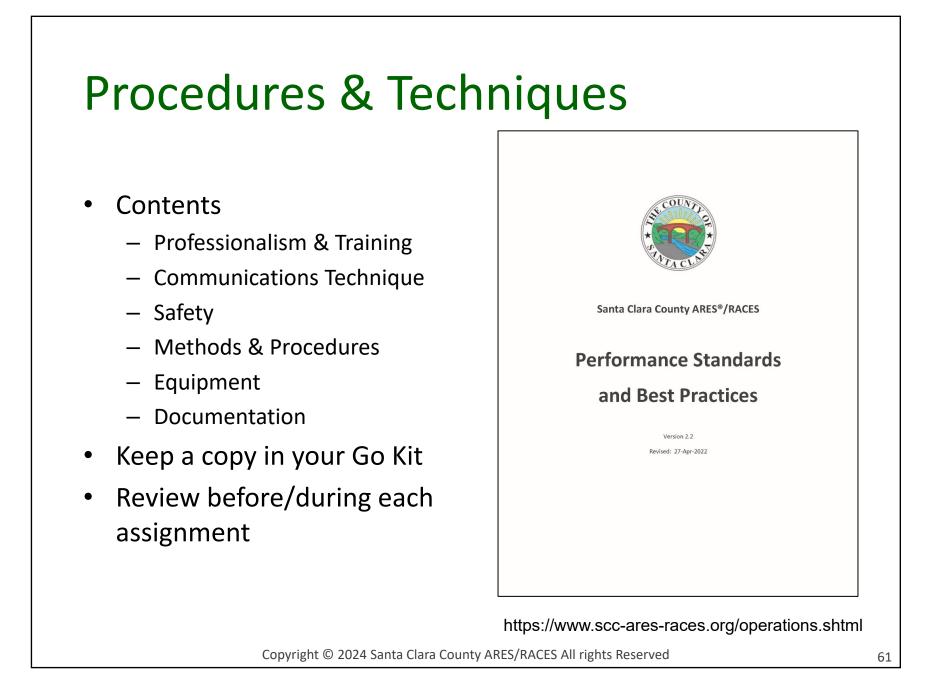
- You will be provided with an ICS-205 Communications Plan
 - Before the event for most public service events
 - At the event for non-planned events and drills
- Lists all frequencies to be used during the event including backups.
- These should be programmed into your radio
 - before the event for public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

53. g. 1000-1	alantalaa 1 - armaanar am - m	1. Incident Name/Location	2. Activation Number		3. Operational Period Date/Time					
COMMUNICATIONS PLAN SCCo ARES/RACES/ACS		Boris Karloff Memorial Mummy Race /			MHT-15-05		From Date			
-		Mockingbird Height	is Stage				From Time	e: 18:00	D To Time: 24:00	
Comr	nunications Resource	s Call Sign and/or	[1	Rx Tone	Tx Freq N/W	Tx Tone	Mode		
Ch #	Function	Sys / Net / Ch / TG Name	Assignment	Rx Freq N/W	or NAC	or + / - / S	or NAC	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	А	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	А	Backup.	
8	Operations	MHT EOC	Command Post	3.878 LSB	N/A	s	N/A	А	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.	
	al Instructions ce Net repeaters will	be linked. All nets are Directed	l Nets unless otherwise inc	licated.		1	1		1	
6.Prepared by (Communications Unit Leader)					7.Prepared Date/Time			8. Page		
	RACES Herma	n Munster, W6XRL4		06/02/2018 09:30			1 of 1			

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



- 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



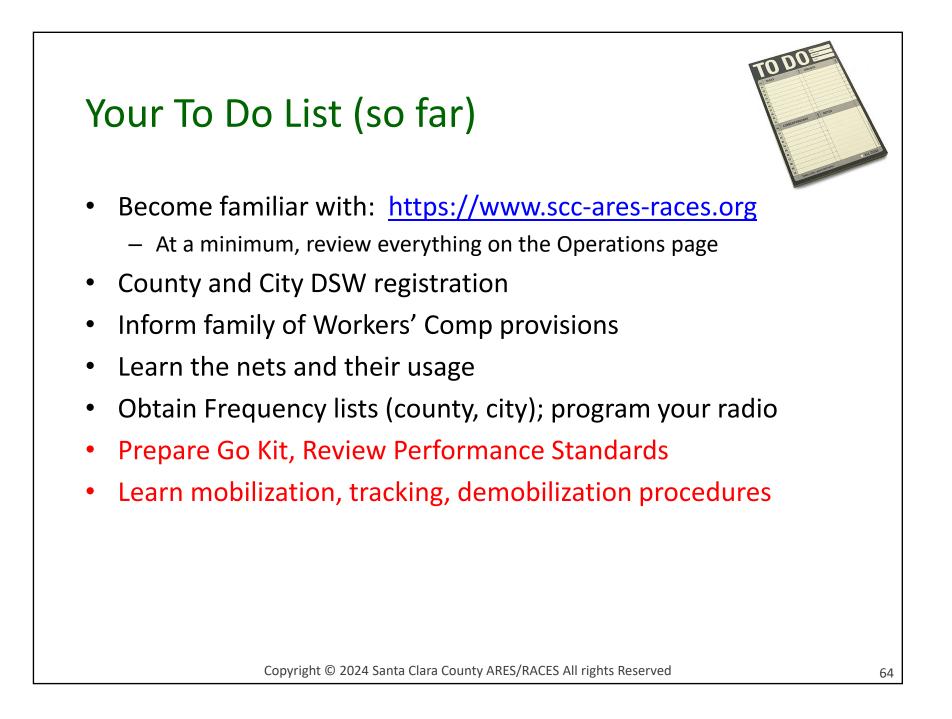
Checking Out at the End of Assignment

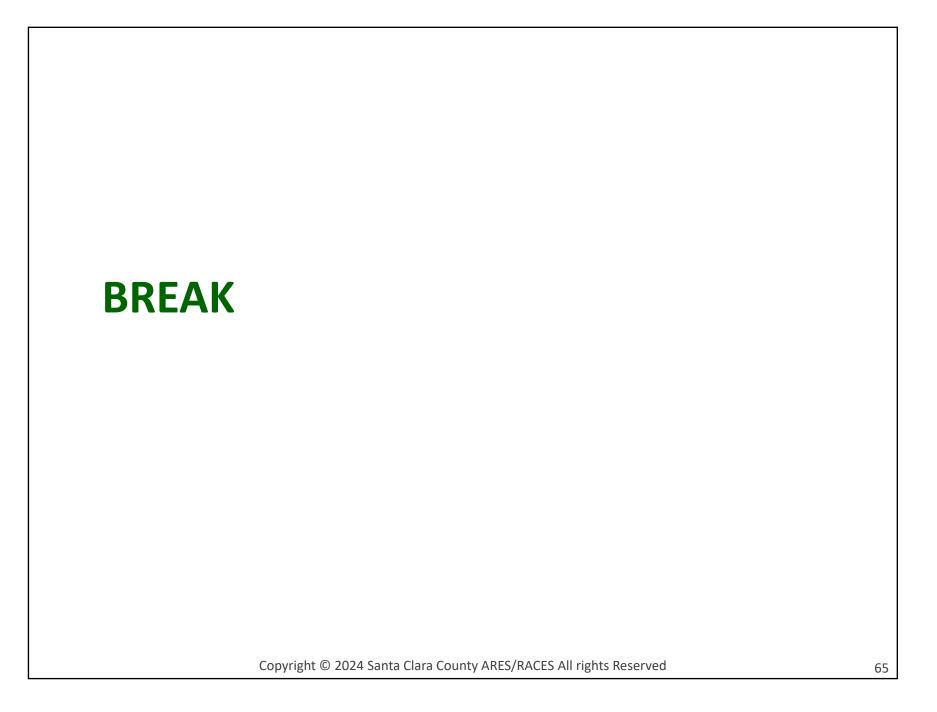
- If you sustained an injury during your assignment that hasn't already been reported to your supervisor, report it before checking out.
- Check out at the location where you checked in
 - Turn in all documents and forms as instructed
 - Sign out on ICS-211A Check-In List
- Check OUT of the local event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

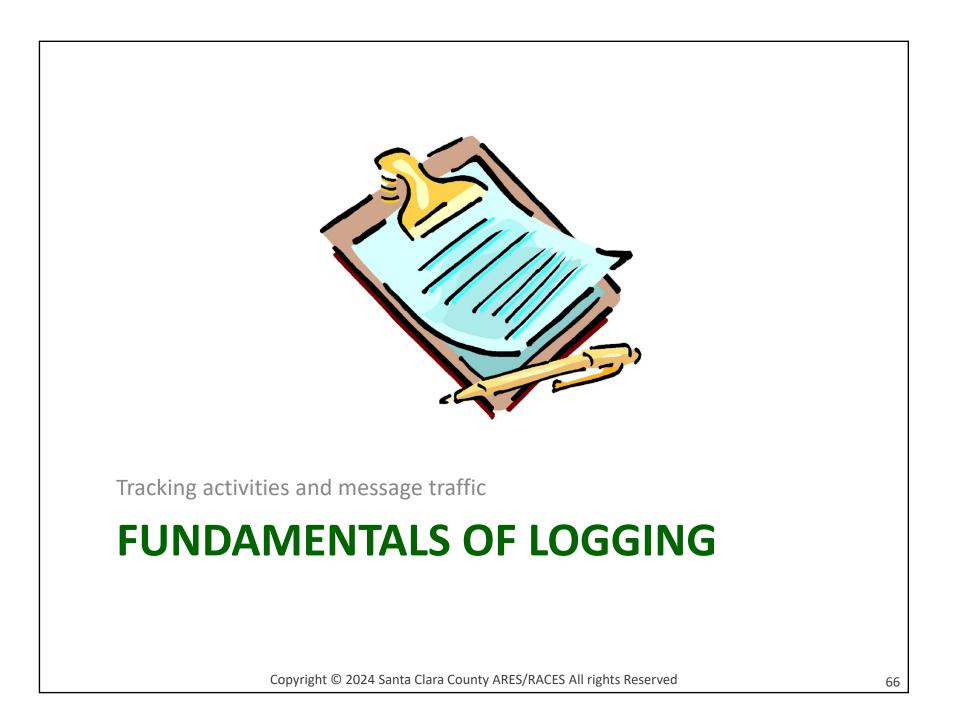
Demobilization

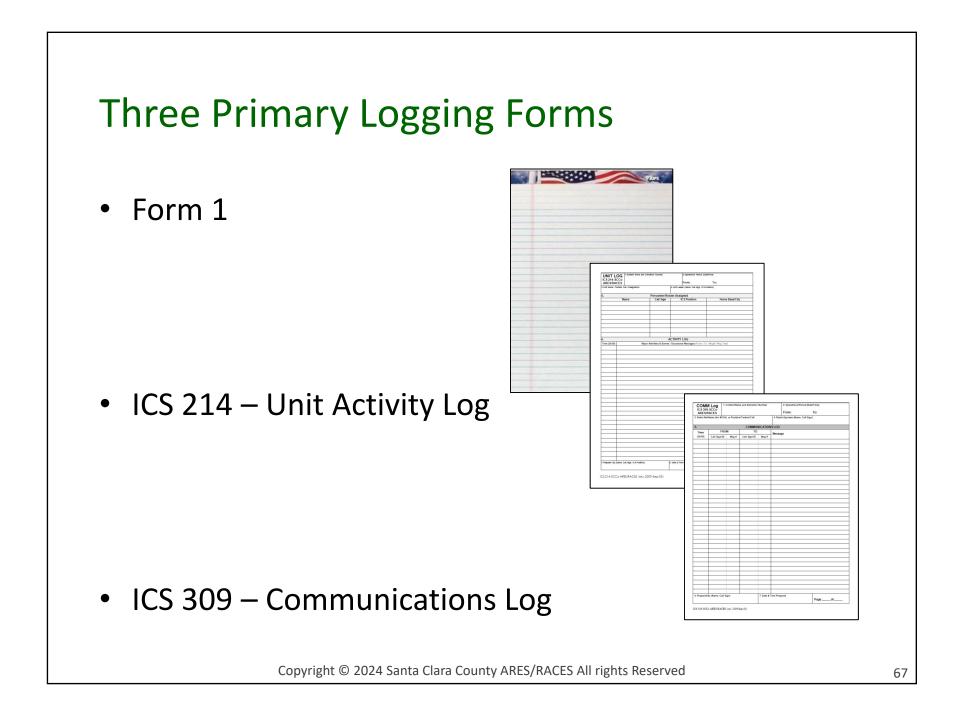


- Check IN on the Resource Net (or other travel tracking net)
- Inform Resource Net control that you are proceeding home
 - Give current street location and last three digits of odometer
- Do H&W every 20-30 minutes on the way home
 - Give street location ("Highway 101 at 280") and last three digits 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)



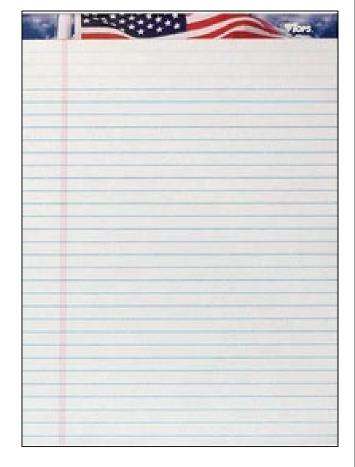






Form 1

- 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!)



ICS 214 – Unit Activity Log

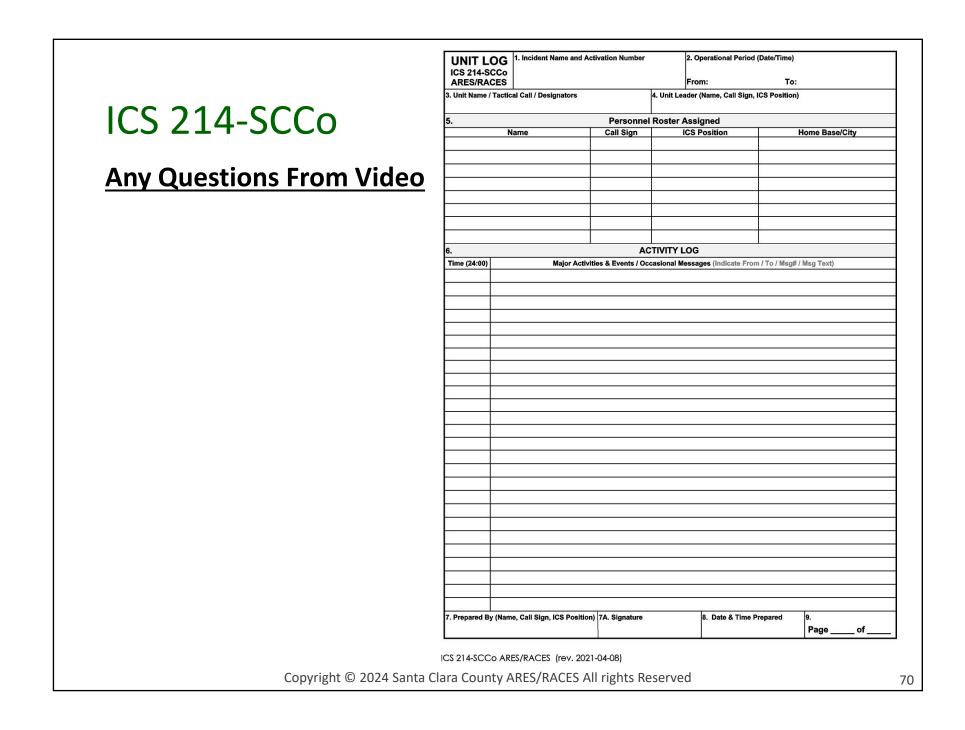
Review of Video Training

- SCCo version: ICS 214-SCCo
- A record of all major activities
 - Assignment, departure, arrival, etc.
- Start when you are assigned/activated
- EVERYONE fills out a 214
 - Individuals: a unit of one (normally)
 - Teams: Team leader (seldom)
- Shadows only
 - Log message traffic on the 214
 - No need to use an ICS-309 Comm Log
- Use multiple pages if necessary
- Turn in to supervisor at end of shift

UNIT LO		ent Name and Ac	tivation Number	2. Ope	rational Period	(Date/Time)			
ICS 214-SC ARES/RAC				From		To:			
	nit Name / Tactical Call / Designators			4. Unit Leader (Name, Call Sign, ICS Position)					
i.				Roster Assign		,			
	Name		Call Sign	ICS Po	sition	۱	lome Base/Ci	ty	
			AC	TIVITY LOG					
Time (24:00)		Major Activit	ies & Events / Oce	casional Message	s (indicate Fror	n / To / Msg# /	Msg Text)		
	1								
. Prepared By	(Name, Call S	Ign, ICS Position	7A. Signature	8	Dato & Timo F	repared	9. Page	of	

ICS 214-SCCo ARES/RACES (rev. 2021-04-08)

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



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

Example 214 Individual field communicator

Your form should look similar to this.

UNIT L		ntals Class	2. Operational Period			
ARES/RA		4T	From: 1800	™ 2130		
	/ Tactical Call / Designators		4. Unit Leader (Name, Call Sign,	ICS Position)		
St	<u>udent-xxx</u>			> <your call="" sign=""></your>		
5.			Roster Assigned			
	Name	Call Sign	ICS Position	Home Base/City		
6.		ACT	FIVITY LOG	···		
Time (24:00)			asional Messages (indicate Fron	n / To / Msg# / Msg Text)		
1725	Departed Hom					
1/52	Arrived at park	<u>ang lot for</u>	class OD 554			
1800	Started class					
1000	Assigned Tactical Call Sign of Student xxx					
2014	Took a break					
2130	Completed Assignment					
		5				
	-					
7. Prepared E	l By (Name, Call Sign, ICS Position	on) 7A. Signature	8. Date & Time P			
	ame> <your call="" sig<="" td=""><td>In Sign</td><td>Here < date></td><td>2135 Plage _ 1_ of _ 1</td></your>	In Sign	Here < date>	2135 Plage _ 1_ of _ 1		
- y / ii	,					

ICS 309 – Communications Log

- Our version: ICS 309-SCCo
- Used by everyone except Shadows
- Columns help organize key message tracking info
 - Time
 - From
 - То
 - Message subject
- Does not replace ICS-214
 - ICS-214 is a Unit Activity Log
 - EVERYONE fills out an ICS-309
 Communications Log (except Shadows)
- Turn in to supervisor at end of shift

ICS 309 ARES/	-SCCo	1. Incident Name	and Activation N	umber		2. Operational Period (Date/ From:	Time) To:
3. Radio Ne	Name (for N	ICOs) or Position/	Factical Call		4. Rad	io Operator (Name, Call Sign)	
5.			COMMUNIC	CATIONS	LOG		
Time		FROM	1	го		Message	
(24:00)	Call Sign/	ID Msg #	Call Sign/ID	Msg	#		
			_				
			-				
			-				
			-				
				_			
				-			
6. Prepared	By (Name, C	all Sign)	6A. Signature			7. Date & Time Prepared	8. Page of

ICS 309-SCC0 ARES/RACES (Rev. 2021-Apr-06) https://www.scc-ares-races.org/operations.shtml

ICS 309-SCCo

Field-by-field instructions on back:

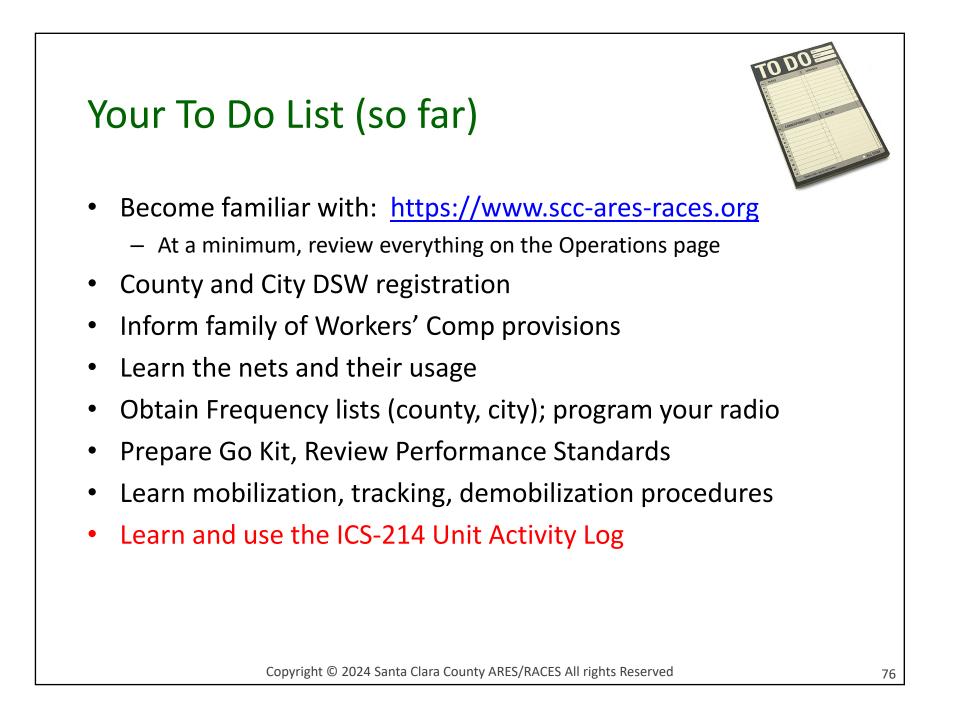
- 1. Incident Name & Activation Nbr
- 2. Operational Period (date, time)
- 3. Radio Net or Position Name
 - NCOs: Radio Net Name
 - Individuals: Position/Tactical Call
- 4. Radio Operator (name, call sign)
- 5. Communications Log
 - Time (local 24:00 hour time)
 - From (Call Sign/ID & Msg #)
 - To (Call 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

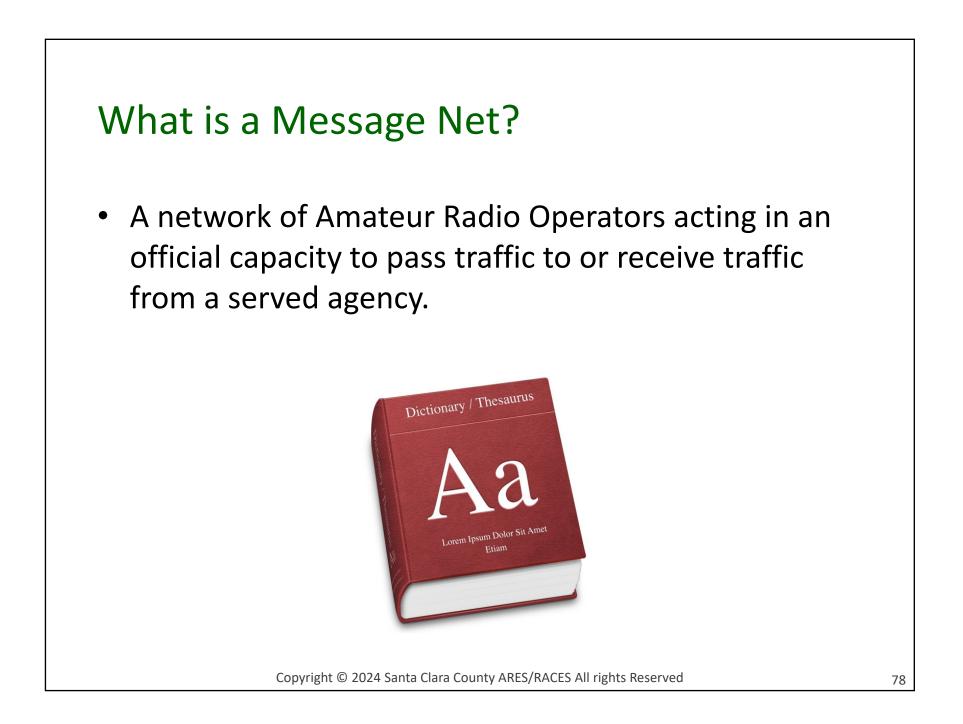
		COs) or Position/				o Operator (Name, Call Sig	,	
5.	_		COMMUNIC	CATIONS	SLOG			
Time		FROM	+	го		Message		
(24:00)	Call Sign/II	D Msg #	Call Sign/ID	Msg	#			
		-						
			-					
. Prepared	By (Name, Ca	all Sign)	6A. Signature		_	7. Date & Time Prepared	8.	
	_, (Page	_of

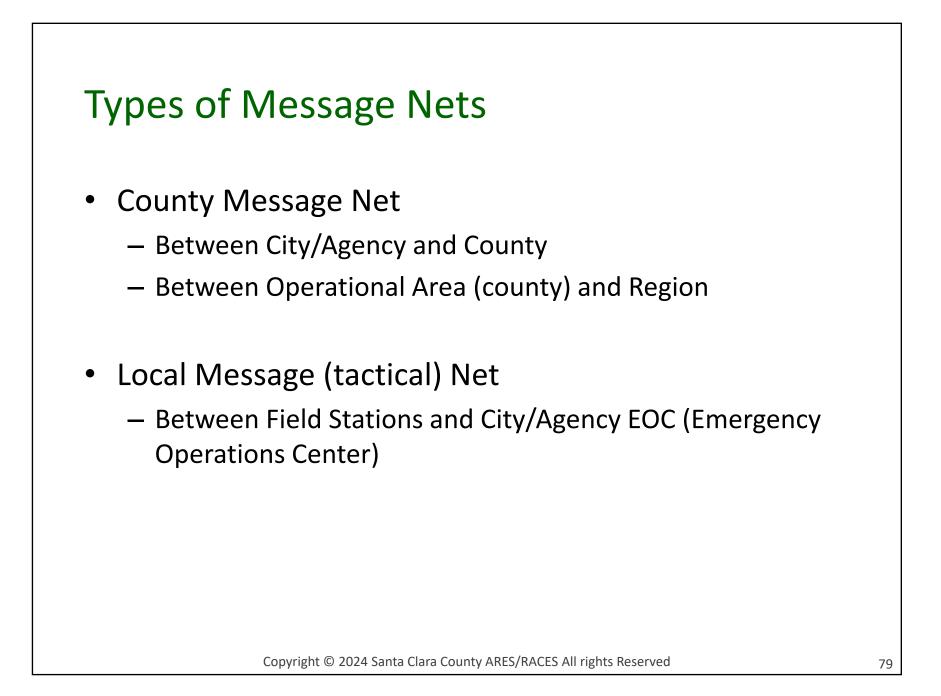


- Everyone fills out an ICS-214 Unit Activity Log (ICS 214-SCCo)
- Shadows only
 - Log message traffic on the ICS-214 Unit Activity Log
 - The ICS-309 Communications Log is optional
- Other operators (Net Control, Field, etc.)
 - Use an ICS-309 Communications Log for logging message traffic
 - Does not 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



	MESSAGE FORM: Origin Msg #: 2 Destination Msg #: 2 Particle in degree with four series in the origin of the set of the series of the series in the origin of the set of the series of the s
The Message Net in Action	
FUNDAMENTALS OF MESSA HANDLING	AGE
Copyright © 2024 Santa Clara County ARES/RACES All ri	





Types of Messages

- 3rd 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

+ For p	aper: use bal	SE FORM lpoint pen – blue or is for hotractions)	Origin Msg	#:*			on Msg #: '	
Date ".		Time (24)ryc -	landling (roos	-	nedate (AS	AP O Priori	ty (<1lar) (Routine (< 2br)
		· · · · · ·	his Message Ro			Mark O Yes		O No
1007	etH351	(000/12/2400)		1 Auto		(Yese) Q Yes,	be	OND
JC	S Position: 1	(required) ²				ition: (required		
т	catios: (roq	uired) *		F R O	Location	n: (required) *		
Na	une: (option	al)		м	Name: (optional)		
Te	lephone #:(c	optional)			Telepho	ne #: (optional)		
SUBJE	CT: "							
		Number of earlier m	- n [
		N: ¹³ (For use by Orig						
cc:	Mara	gament ⊡o	inator / Recipien	ıı) ▶ USE □ Piarni		TE MESSAGE F	ORM IF SEN	
CC: Opera	⊡ Mara tor Use On	gament ⊡o			ra			
CC: Opera Relay:	Mara	kçament □O		Panal		i oqistics		
CC: Operat Relay: How:	□ Mara tor Use On Rent: Q Teceve	kament □0 İş:**	perzions	Pani Pani Op	rq Scai:	Sign:		
CC: Operat Relay: How: D telep	Maria tore Use On Rend: O Receive	komrent ⊡o hy:" ki ar O Sett O Uspatch Carden	perzions	Pani Pani Op	rq Scal: wator Cal	Sign:		
CC: Dpera Relay: How: D telep D EOC D Anal	Aara Ine Use Om Rend: O Teceve None Ratie xur Rodia	komrent ⊡o hy:" ki ar O Sett O Uspatch Carden	uerctors (≁onu):	Pani Pani Op	re Sent: stator Cal stator Nat	Sign:		
CC: Operat Relay: How: O tekp O EOC O Avail Interplay Red Interplay Red	Mana Rend: O Beceve Aone Radio Sur Radio (Nors)." Sur Radio (Nors)." Sur Radio (Nors)."	komrent ⊡o hy:" O Uspatch Carner O FAX ()	uerztors (✓onu):) Courier Be: 30taine coyr L a Chry and file innr	Darni Opr Opr Dat ic yor tile the	re Sent: stator Cal stator Nat e: encu	capitries	Time:	



Message Traffic Operator Skills

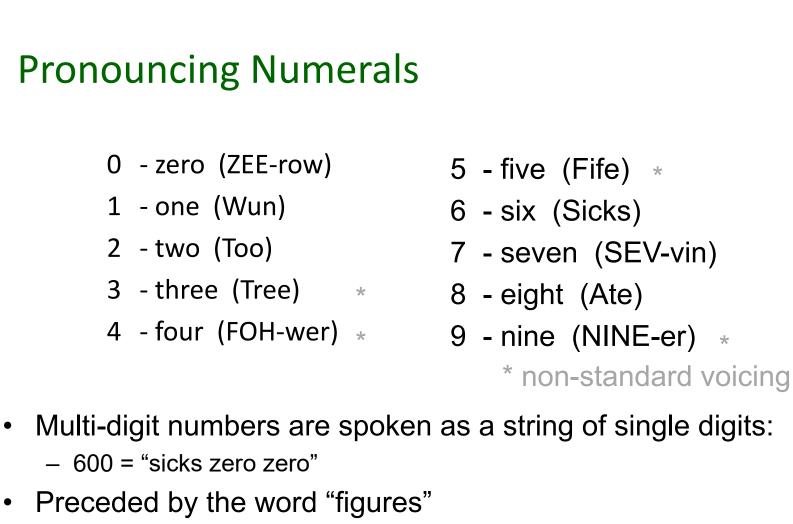
A good radio operator ...

- ... 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)
- B bravo (BRAH-voh)
- C charlie (CHAR-lee)
- D delta (DELL-tah)
- E echo (ECK-oh)
- F foxtrot (FOKS-trot)
- G golf (GOLF)
- H hotel (hoh-TELL)
- J juliet (JU-lee-ETT)
- K kilo (KEY-loh)
- L lima (LEE-mah)
- M mike (MIKE)

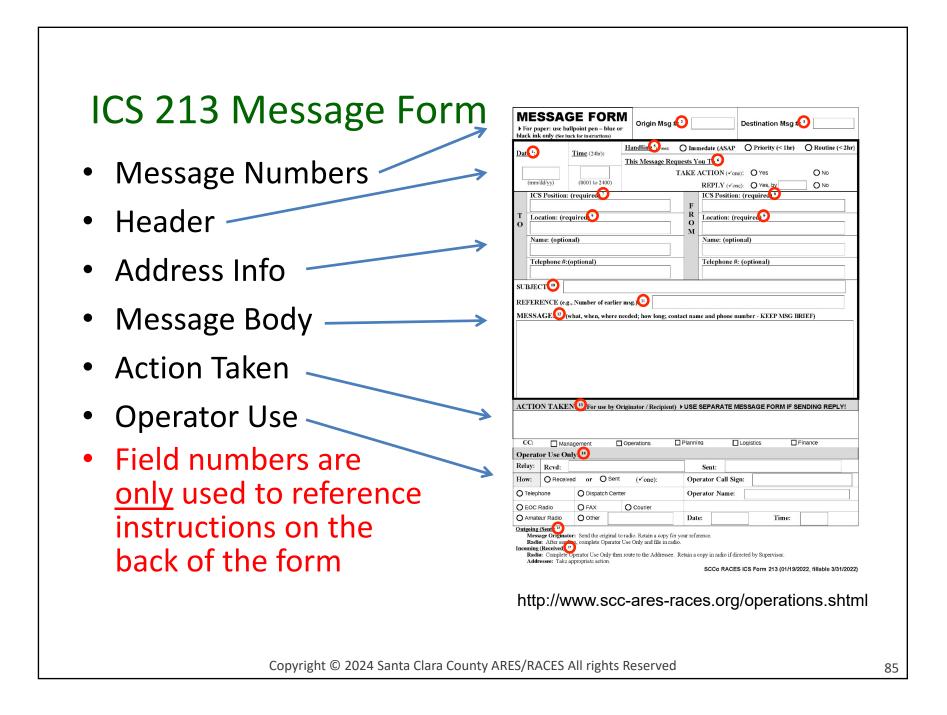
- N november (no-VEM-ber)
- O oscar (OSS-cah) *
- P papa (pah-PAH) *
- Q quebec (keh-BECK) *
- R romeo (ROW-me-oh)
- S sierra (see-AIR-rah)
- T tango (TANG-go)
- U uniform (YOU-ni-form)
- I india (IN-dee-ah) V victor (VIK-tah) *
 - W whiskey (WISS-key)
 - X x-ray (ECKS-RAY)
 - Y yankee (YANG-key)
 - 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"



- "Please copy 109" → "Please copy figures, one zero niner"
- − "Requesting 16 blankets" \rightarrow "Requesting figures, one sicks, blankets"



SAY AGAIN ... Repeat – usually used with other prowords WORD AFTER "Say again word after ..." "Say again word before ..." WORD BEFORE "Say again between ... and ..." BETWEEN "Say again all after ..." ALL AFTER "Say again all before ..." ALL BEFORE "I spell, Alfa, Bravo ..." I SPFI I FIGURES "Figures Wun, ZEE-row, NINE-er" (= 109) "Initials Echo, Oscar, Charlie" (= "EOC") INITIALS MIXED GROUP "Mixed Group Foxtrot, Wun, Fife, ZEE-row" (="F150")



Message Form – Message Numbers

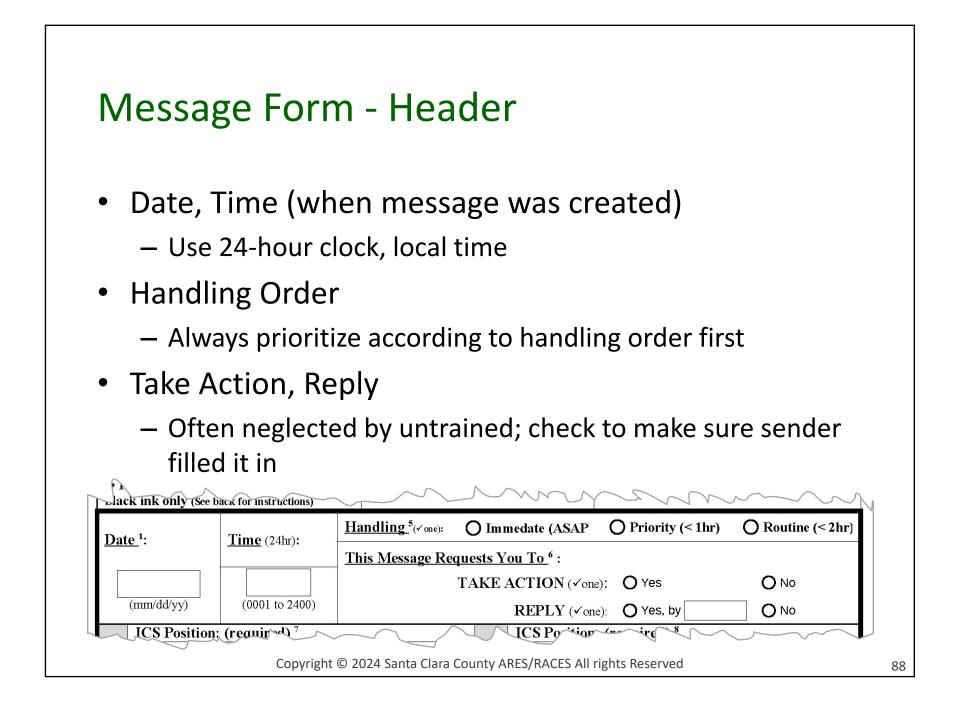
- Critically important for tracking messages
- If you are Sending
 - Your message number goes in the Origin Msg # box (it's often prestamped on the form)
 - Write the receiver's message number in the Destination Msg # box
- If you are Receiving
 - Your message number goes in the Destination Msg # box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

MESSAGE FORM • For paper: use ballpoint pen – blue or black ink only (See back for instructions)	Origin Msg #: ²	Destination Msg #: ³	
Copyright ©	2024 Santa Clara County ARES/RACES All	l rights Reserved	86

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 - 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)

	Jac hours	\searrow	RErLY One) (Yes,)	
	ICS Position: (required) ⁷		ICS Position: (required) ⁸	
		F		
T	Location: (required) ⁹	R O	Location: (required) ⁹	
0		M		
	Name: (optional)		Name: (optional)	
	Telephone #:(optional)		Telephone #: (optional)	
L.	DECT. 10			
	Copyright © 2024 Santa Clara Cou	inty A	RES/RACES All rights Reserved	89

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

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
SUBJECT: 10	
<b>REFERENCE</b> (	e.g., Number of earlier msg.): ¹¹
MESSAGE: 12	(what, when, where needed; how long; contact name and phone number - KEEP MSG BRIEF)
NJ.	Recip U SEPAP
	Copyright © 2024 Santa Clara County ARES/RACES All rights Reserved

#### 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

	Maria	gement		rations	<u>L</u> F	Planning	<u>~_</u>	<u>D</u> and	Finance	$\sim$	ß
Operat	or Use Onl	y: 14									
Relay:	Relay: Rcvd:				Ser	nt:					
How:	O Receive	d or O	Sent	(√one):		Operato	r Call Sign:				
O Telep	hone	O Dispatch	i Cente	r		Operato	r Name:				
OEOC	Radio	<b>O</b> FAX		O Courier							
O Amate	eur Radio	O Other				Date:		Time:			
Outgoing	(Sent): 15	$\sim$	$\sim$	D		f			~~~	$\sim$	$\neg$
		Copyri	ight ©	2024 Santa Clara	Cou	nty ARES/	RACES All rig	hts Reserved			

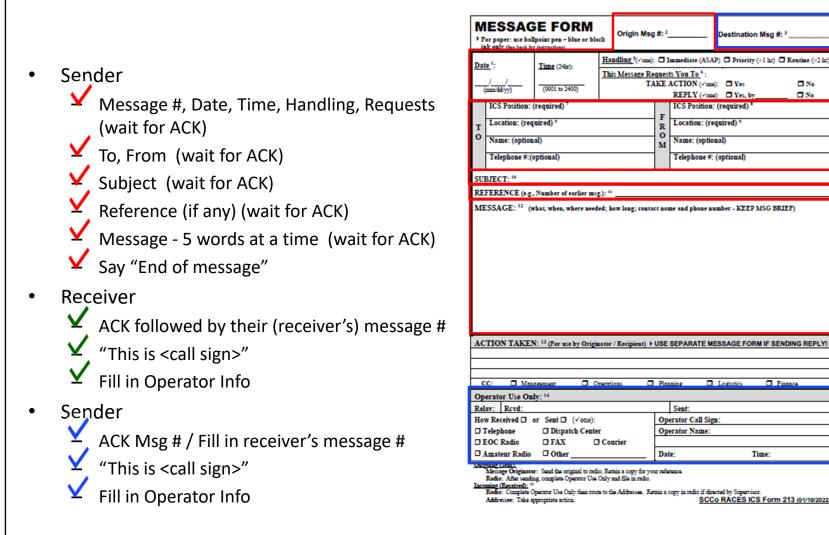
	nly (See back	for instructions)	~~~~		m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
nte 1:	Т		<u>Handling</u> ⁵ (✓ one):	O Immedate (ASAP)	O Priority (< 1hr)	O Routine (<
<u>ne</u> :		<u><b>`ime</b></u> (24hr):	This Message Ro	equests You To ⁶ :		
				TAKE ACTION (Vor	ne): OYes	O No
(mm/dd	/yy)	(0001 to 2400)		REPLY (Vor	ne): O Yes, by	O No
	and t	ime the	message w	ginator filled vas actually s	ent or recei	ived
TC:	and t	ime the		vas actually s	ent or recei	
	and t	ime the	message w	vas actually s	ent or recei	ived
CC: Operat Relay:	and t	ime the agement Ily: ¹⁴	message w	vas actually s	ent or recei	ived
Ce: Operat	and to Man or Use On Rcvd: O Receive	ime the agement Ily: ¹⁴	<b>message w</b>	Vas actually s	ign:	ived
Operat Relay: How:	and to Mamor Use On Rcvd: [ O Receive	agement aly: ¹⁴	<b>message w</b>	Vas actually s	ign:	ived

Destination Msg #:

Time:

D No

#### **Recommended Transmission Process**



## 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 <u>not</u> 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  $\rightarrow$
- 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

Do?	►F		<b>SE FORM</b> llpoint pen – blue or bla or instructions)	Origin Ma	sg #: ²	<u>00C-12</u> 3	Destination	n Msg #: ³	
DU	Dat	<u>te ¹:</u> 7/13/24 mm/dd/yy)	<u>Time</u> (24hr): <u>15:27</u> (0001 to 2400)	<u>Handling</u> ⁵ (√on <u>This Message I</u>	Request			(<1 hr)	Routine (<2 hr)
$\rightarrow$						REPLY (Vone	): 🗸 s, by		D No
ect?	T O	ICS Position: Location: (rec Name: (option Telephone #:(	quired) [°] All Hos nal)	•	F R O M	ICS Position: Location: (re Name: (optio Telephone #:	quired) ⁹ nal)	Plannir PHDO(	
s. "two" ' vs "fore" "	MI	Need 50	what, when, where need OO doses of ac osis. Request	cetaldehy	) tr	eat two c		MSG BRIE	F)
ers		TION TAKE	N-Bar Louis		. 1105				
	(	C: 🗆 Mar		· · · · ·	▶ USE		ESSAGE FOR Logistics	EM IF SEND	
	Op		nagement C	· · · ·					
	Op Rei Ho	C:	nagement □ C lly: ¹⁴ · Sent □ (√one): □ Dispatch Cento	Dperations	Plan Ope	ning 🗖	Logistics n: < yOUT	🗖 Fina	nce N >
ord breaks		C: Mar erator Use On ay: Reve w Receive Celephone DC Radio nateur Radio <u>oing (Sent)</u> ¹⁵ Message Originat Radio: After sendi ming (Received): ¹	nagement □ C ly: ¹⁴ • Sent □ (✓ one): □ Dispatch Cento □ FAX □ □ Other pr: Send the original to rad ing, complete Operator Use	Dperations er Courier lio. Retain a copy for Only and file in radic	Plan Ope Ope Dat your refer o.	ning  Sent: crator Call Sig rator Name: e: < CUITEN	Logistics n: < yOUF < yOU : date > 1	Fina Call Sig Ir name Time:< CU	nce N >

## 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 3rd 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**

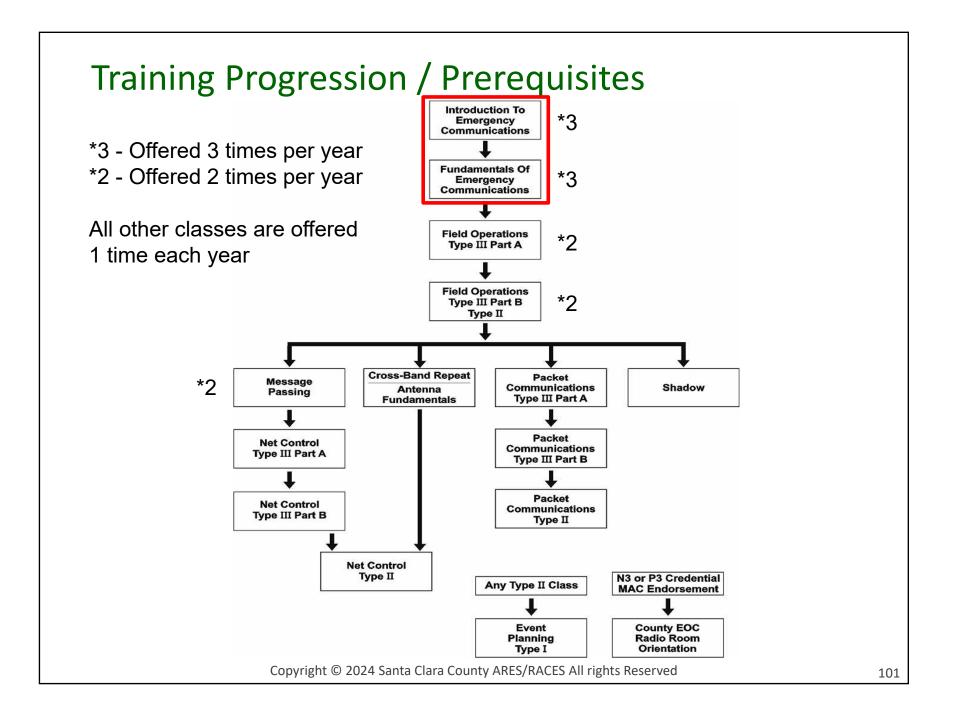
- You now have exposure to the basics of emergency communications in Santa Clara County; but there's much more!
- During an emergency activation and exercises the professionals utilize the Incident Command System (ICS)
- Most served agencies that we work with require ICS training for volunteers. FEMA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



#### **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: <u>https://www.scc-ares-races.org/activities</u>
- Hope to see you there

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		Basic
Net Control - Type II		Advanced
Packet Operations		Specialized but not difficult
Packet Operations - Type III, Part A		
Packet Operations - Type III, Part B	*	Has some basic elements but
Packet Operations - Type II		also some more advanced
Shadow Communicator		concepts
Shadowing		
Other Core Courses		
Message Passing		
Cross-band Repeating ★		
Antenna Fundamentals and Safety 🛛 ★		
Event Planning – Type I		
County EOC Radio Room Operator		
/ear End Review		
Offered in December each year to review the significa the year. Does not replace the need to attend other c		



#### 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

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

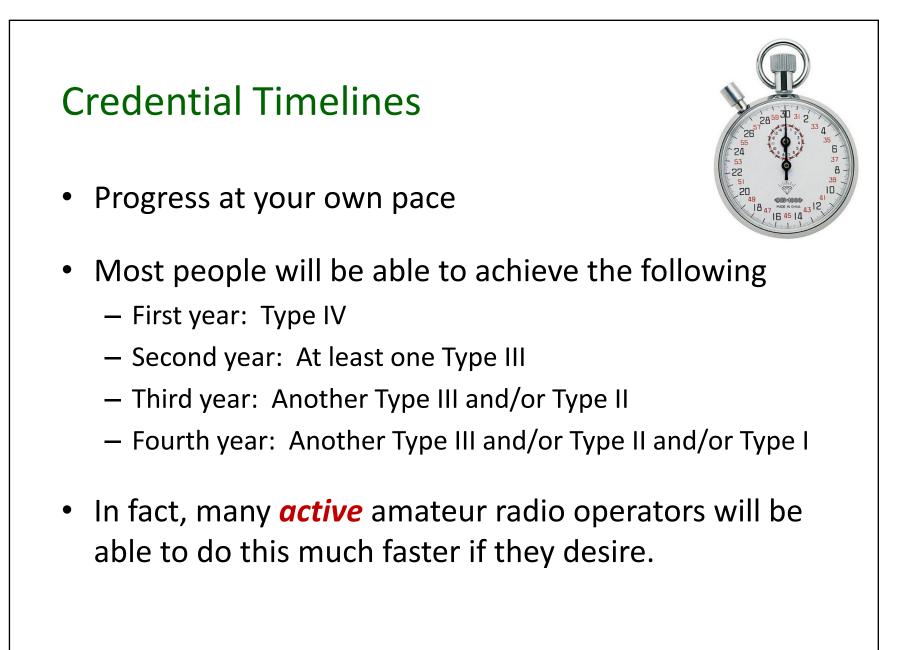
#### **Credential Types**

- **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)

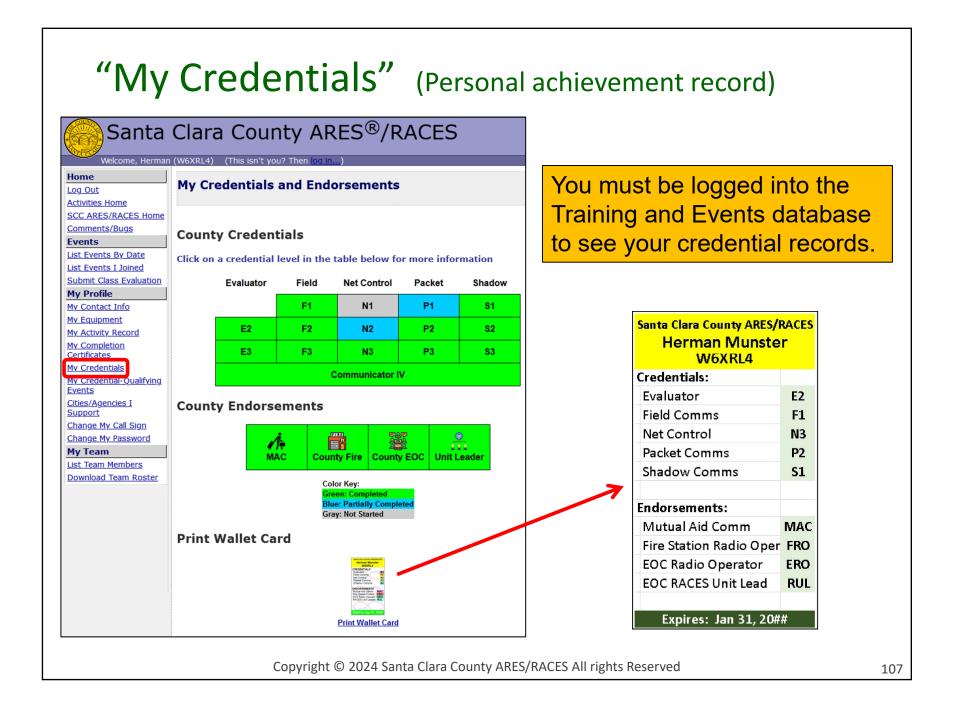
#### https://www.scc-ares-races.org/credentials/



Dictionar

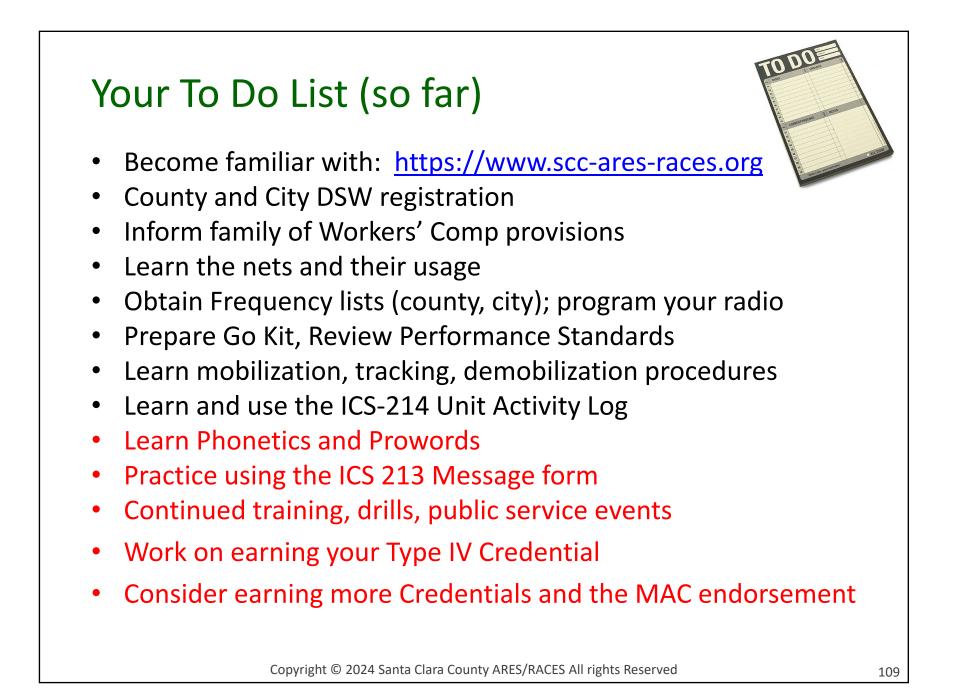
#### Mutual Aid Communicator (MAC) Endorsement

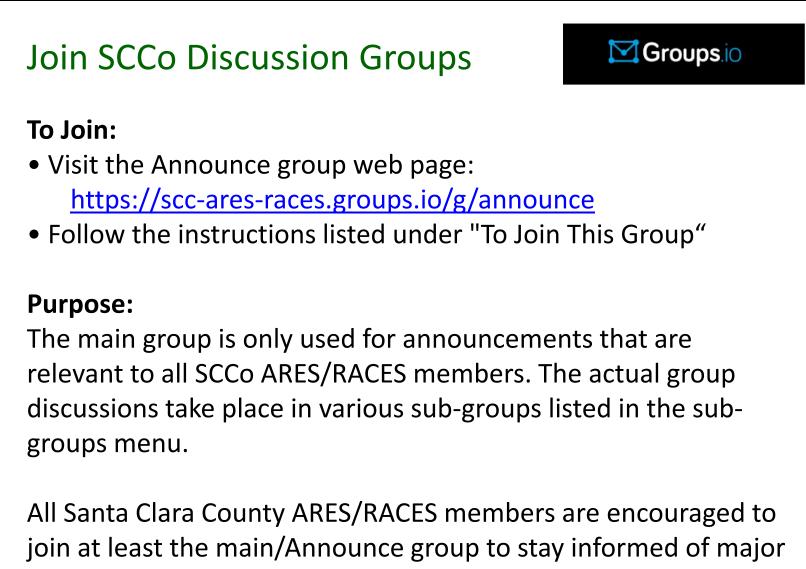
- An amateur radio operator that meets minimum requirements and is <u>willing to help outside own city/agency</u> when needed
  - Only called upon when not needed within own city/agency
- Must have at least a Type IV Credential:
  - Administrative: age, amateur radio license, transportation, ...
  - 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)



## Thank you for participating in ARES/RACES

- <u>You are an ambassador to the public</u> 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 <u>served agency</u> in benefit to the <u>public</u> for real and public service events.





activities and events.

	Announcements and discussion related to the Santa Clara County				
<u>Credential</u>	ARES/RACES Credentialing Program.				
	Discussion of and mutual user support for equipment used for				
<u>Equipment</u>	t Santa Clara County ARES/RACES activities.				
	Announcements and discussion related to the Santa Clara County				
<u>MAC</u>	ARES/RACES Mutual Aid Communicator (MAC) Endorsement.				
	Discussion of any SCCo ARES/RACES training topic, including				
Training	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.				





- 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.

