



Santa Clara County ARES®/RACES

Performance Standards and Best Practices

Version 2.2

Revised: 27-Apr-2022

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Usage Guidelines

Recommended for all ARES®/RACES Communicators

The best practices contained in the following pages document the RECOMMENDED performance standard for emergency communications in Santa Clara County ARES®/RACES. These best practices are a distillation of the ongoing training provided within the county and the experience gained from real-world incidents. All participants in ARES®/RACES activities should strive to perform their assignments according to this standard.

Required Minimum Standard for Mutual Aid Communicators

Mutual Aid Communicators (MACs) are amateur radio operators who have volunteered their time, their expertise, and their equipment to provide communications services during times of need. These individuals are trained and prepared to provide a variety of communications services and are available for deployment throughout the county, according to the county mutual aid mechanisms.

The best practices contained in the following pages document the REQUIRED MINIMUM performance standards which apply to all Santa Clara County MACs, at all times. Additional standards may apply to higher qualification levels. The goal of every Santa Clara County MAC should be to stay so well trained and practiced that he/she regularly adheres to these standards without a second thought.

Maintain in Go Kit

All Santa Clara County MACs must maintain a copy of these standards in their Go Kit at all times. This makes it convenient to refer to them prior to initiating an assignment. They can also serve as a reference for use during an assignment.

Use of Good Judgment

All Santa Clara County ARES®/RACES communicators are expected to exercise good judgment in the application of these standards to real world situations. Everyone should adhere to all standards that are applicable to and appropriate for their specific assignment. When unsure about the application of a particular standard, the individual should seek clarification and guidance from his/her supervisor or net control. In all cases, an amateur radio operator should never do anything that would jeopardize the safety of themselves or others.

Updates and Notices

This standard is published on the SCCo ARES/RACES website at <https://www.scc-ares-races.org>. Revisions are posted no later than two weeks before a scheduled County drill or event and are not released more frequently than 30 days from the previous revision. Revisions take effect two weeks after notification. Notice of a new revision is sent to our Announce list at <https://scc-ares-races.groups.io/g/announce>.

Professionalism and Training

- Understands Assignment
 - Demonstrates knowledge and purpose of assignment
 - Arrives on-time to check-in and receive briefing before shift begins
 - Equipment set-up is prioritized to be on air when agency expects (at the start of shift)
 - Properly documents assignment
 - e.g. Activation number and other details provided by supervisor or Net Control
- Maintains positive control of assignment
 - Stays focused and on task
 - Remains composed under stressful conditions
 - Properly prioritizes tasks and handles overload situations calmly
 - Advises supervisor or Net Control of any change in status or location
 - e.g. Breaks, physical and environmental changes, changes in communications activity level, etc.
- Functions effectively as a team member
 - Effectively shares work assignments with other team members
 - Follows instructions and performs assigned tasks politely and proactively
 - Works cooperatively with leaders and co-workers
 - Keeps the team informed of his/her progress, status
 - Maintains a polite and respectful relationship, even under stress
 - Actively volunteers to help the team
 - Respects the efforts and responsibilities of each volunteer and professional
 - Is a positive ambassador for amateur radio
 - Is a benefit to communications
- Functions in a helpful, positive, professional way with served agency at all times
 - Introduces him/herself to served agency team leader and other key individuals
 - Maintains an advisory type of relationship for communications functions
 - Coordinates communications activities with the rest of the served agency team
 - Communicates effectively using served agency's protocols
 - Adapts to the particular procedures and needs of the served agency and/or situation
 - Maintains a list of served agency contact numbers for use during the assignment
 - Handles disagreements with served agency professionally
 - i.e. Exercises restraint and remains professional; doesn't argue; informs supervisor or Net Control promptly
 - Promptly follows directions of Police/Fire
 - Coordinates demobilization of communications operations with served agency

- Functions fully independently for length of assignment
 - Prepared for 12 hours (go kit, personal readiness)
 - Has the physical, mental, emotional, and readiness for typical 8 to 12-hour shift
 - Communicates any limitations prior to accepting an assignment
 - e.g. Physical, mental, emotional, equipment, schedule, etc.
 - Communicates any changes in status during the assignment
 - e.g. Physical, mental, emotional, equipment, schedule, etc.
 - Has the ability to perform the assignment he/she accepted
- Seeks out and participates in training on a regular basis
 - Participates in training courses to stay abreast of current standards and techniques
 - Participates in drills and public service events to maintain and improve operating skill
 - Contributes own experience to the interaction that occurs during training and drills
 - Sets up, inventories, and tests all equipment yearly (Go-Kit)

Communications Technique

- Verbal communication is effective, clear and concise
 - Maintains a clear speaking voice
 - Controls tone of voice, even under stress
 - Has a good command of the English language
 - Has good hearing and is able to copy traffic accurately
 - Uses plain English, no 10-codes, Q-codes, etc.
 - Properly uses/pronounces letters and numbers
 - Properly uses phonetics and can recite all ITU standard phonetic letters
 - Properly speaks numbers, including multi-digit numbers and decimal points
 - Properly uses prowords as defined in SCCo ARES/RACES training and documentation, and in the ARRL NTS manual.
 - Communicates time using 24-hour local time; unless otherwise instructed
 - Formulates thoughts before keying mic; avoids saying “uhhh”
- Radio technique is effective
 - Makes only necessary transmissions
 - Uses procedures and techniques to reduce the number of transmissions
 - Uses a minimum of words to convey a message
 - Leaves pause at beginning of transmission to allow repeater to key up
 - Leaves sufficient gaps between transmissions for others to break in
 - If repeaters are linked, leaves an even longer pause at beginning of transmission and an even longer gap between transmissions
 - Drops PTT when not speaking; avoids “open mic” or “dead air”
- Written communication is effective, clear and concise
 - Message forms are completed correctly and legibly
 - Other standard forms are completed correctly, legibly, and signed as appropriate
 - Informal messages are clear, concise, and legible
 - Writes time as 24-hour local time; unless otherwise instructed
 - Logs and other records are clear, concise, and legible
- Call signs and tactical calls are used properly
 - Copies call signs accurately and efficiently
 - Is able to explain the purpose and advantages of tactical calls
 - Uses tactical calls frequently and properly when communicating
 - Properly IDs with FCC call sign at end of transmissions and according to FCC regulations

Safety

- Actively and continually assesses personal safety
 - Restricts activities to the scope of his/her training and assignment (communications)
 - Calls 911 or other official emergency number if fire, medical or public safety issue exists
 - Wears proper attire for the situation
 - Maintains awareness of surroundings and potential for safety issues
 - Drives safely and does not speed
 - Does not drive off road unless specifically authorized to do so
 - Does not go anywhere that he/she feels is not safe
 - Avoids overhead wires when deploying antennas
 - Avoids areas of foot traffic and minimize distractions to and from others
 - Conducts Station RF evaluation
 - Professionally and responsibly withdraws from situations that become risky; advises net control and served agency promptly
- Works to prevent fatigue; recognizes and takes action to deal with fatigue
 - Works at moderate pace as applicable to the assigned task
 - Takes periodic breaks
 - Adjusts duties to alternate between heavy and light duty tasks
- Works to prevent stress; can recognize and can deal with stress
 - Emphasizes teamwork
 - Takes regular breaks
 - Maintains proper hydration and nutrition
 - Rotates positions/duties with team members every few hours
 - Notifies net control and coordinates with the served agency if team member is unable to fulfill role
 - Is patient and understanding with other operators who are likely stressed
- Takes proper precautions to deal with cold
 - Dresses in layers, with wicking layer on bottom
 - Uses clothing to reduce exposure to cold and wind
 - Rotates positions with other teammates
- Takes proper precautions to deal with sun and heat
 - Dresses in layers
 - Rotates positions with other teammates
 - Uses sunscreen, hat and clothing to reduce sun exposure
 - Maintains proper hydration including electrolyte levels
 - Makes effective use of shade

- Takes proper precautions to deal with lightning
 - Avoids use of telephone, radios and other electrical appliances
 - Gets out of boats and away from water
 - Takes shelter (in a building if possible, or a closed motor vehicle)
 - Finds a low spot away from trees, fences and poles
 - Squats low to ground on balls of feet if lightning strike seems imminent
- Takes proper precautions to deal with floods
 - Stays out of water deeper than six inches
 - Does not attempt to cross flowing water, regardless of depth
 - Does not drive through flooded roadways
 - Stays out of drainage channels
- Takes proper precautions to deal with landslides and mudslides
 - Stays away from edges and bases of steep slopes
- Takes proper precautions to deal with earthquakes
 - Stays away from downed power and utility lines
 - Checks for natural gas leaks (smell of gas)
 - Does not enter suspect structures
- Takes proper precautions to deal with fires
 - Does not proceed past a fire line
 - Keeps informed of fire weather conditions and forecasts
 - Identifies escape routes and safety zones and makes them known to others
 - Increases alert level if weather is getting hotter or drier, or if wind increases and/or changes directions

Methods and Procedures

General

The following methods and procedures standards apply to all types of assignments

- Understands and is able to describe the purpose and appropriate usage of the main nets
 - The county ARES/RACES frequency list identifies which repeaters are available for primary and backup usage for each county net.
 - Resource Net
 - Official traffic; type of traffic depends on level of operation
 - Resource Net Level 1
 - Information gathering; initial damage reports
 - Resource Net Level 2
 - City EOC check-ins and referral to city nets
 - Resource Net Level 3
 - Coordination of mutual aid; tracking county resources
 - Repeater coverage
 - Typically, three repeaters are available and can be linked: primary/central, northern and southern.
 - Uses the primary repeater for initial contact, whenever possible. Otherwise, uses the northern or southern repeater, as appropriate for the location.
 - When traveling between repeater coverage areas, remembers to switch to the appropriate repeater for the current location.
 - Message Net
 - Official message traffic for served agencies; typically, between city or agency and county EOC
 - Command Net
 - Official traffic between Operational Area command staff and between EOCs
 - Hospital Net
 - Official traffic between hospitals and the Department of Public Health District Emergency Operations Center (DEOC/DOC); also between DOC and county EOC
 - City Nets
 - Official traffic within a city; typically, between field communicators and the city EOC
 - Tactical Net
 - Official and unofficial traffic of a local nature
 - Packet Net
 - Similar to message net except messages sent via packet

- EOC Net
 - The local government radio net between city and county EOCS
 - Not an amateur frequency but frequently staffed by amateur radio operators
- Makes proper use of Resource Net
 - Level 1 – Information Gathering
 - Responds properly to damage survey requests
 - Level 2 – Referral to City Nets
 - Follows proper city net check-in process
 - Level 3 – County resource tracking
 - Mobilization
 - Obtains clearance from city before checking in
 - Checks-in after being released from city
 - Logs assignment and activation
 - Communicates travel status: departure, en route, arrival
 - Reports ready for departure: street and last 3 digits of odometer
 - Reports en route every 30 minutes maximum (or as directed by the NCO): street and last 3 digits of odometer
 - Observes distracted driving laws
 - Reports arrival at destination
 - Checks out after instructed by net control to switch to event/incident tactical net
 - Uses net (similar to above) when moving or changing assignment
 - Demobilization
 - Checks-in after being released by shift supervisor
 - Communicates travel status as described under “Mobilization”
 - Checks out upon reaching final destination or when tracking is no longer desired.
- Passes messages appropriately
 - Transmits only facts, not conjecture
 - Transmits only information approved by Public Information Officer or Emergency Manager or other appropriate authority; when in doubt, asks supervisor
 - Avoids sending personal or confidential information
 - Uses standard ICS position titles and facility names
 - Uses plain English (no Q-codes, 10-codes or other jargon)
 - Clearly states the quantity and handling order of the traffic
 - Message handling orders are: Immediate, Priority, and Routine
 - e.g. “I have ## Priority message(s) for you”
 - Clearly states the message type to be sent
 - e.g. “Message type is ICS 213, Resource Request, etc.”
 - Ensures message form is properly completed before sending

- Passes or copies messages exactly as written
- Passes messages at a speed which receiving party can copy
- Passes messages five words at a time
- Uses the proper Techniques and ProWords per training and documentation
- Effectively sends multi-station (broadcast) messages by selecting a “pacer” station and then polling all stations to confirm receipt
- Maintains contact with Net Control
 - Maintains contact with net control at all times
 - When switching nets:
 - Immediately checks into the next net after checking out the first net
 - Returns to the first net if unable to make contact with the second net
 - Monitors the net continuously and responds promptly when called
 - Notifies Net Control Operator (NCO) if planning to leave the net, even for a few minutes
 - Checks in with NCO at least every 35 minutes to verify transmit ability if not already contacted for a health & welfare status
 - Contacts NCO if no traffic at all (from anyone to anyone) *heard* on net for 15 minutes to verify receive
 - Advises NCO of any change in conditions
 - Reports all unusual or dangerous situations promptly
 - Can listen and respond in a noisy/chaotic environment
 - Gives NCO sufficient notice when requesting a replacement
- Keeps logs and records correctly
 - Properly signs in and out using ICS 211A Communications Check-In
 - Properly and accurately maintains an ICS 214 Unit Activity Log, including the following minimum information:
 - Briefing
 - Time on scene
 - Actions taken; events that occur
 - Time when assignment ends
 - For more than occasional message traffic, properly and accurately maintains an ICS 309 Communications Log of incoming and outgoing transmissions – at least call signs/tactical calls
 - Signs necessary forms as required and/or requested
 - Submits logs and records to supervisor at end of shift/event
- Follows served agency protocols and procedures, as appropriate
 - Check-in, check-out, attendance, badges or other personnel tracking
 - Communications protocols specific to the agency
 - Informs served agency of changes in situation or conditions

- Provides complete and accurate relief briefings, including the following (as appropriate for the situation)
 - Assignment, activation number
 - What notices (bulletins) are in effect
 - Served agency and official in charge, including how they are recognized
 - E.g. vests, hats, badges, etc.
 - Frequencies, tactical calls, net station locations, emergency contact numbers
 - Who to contact regularly
 - Radio, power supply, antenna information
 - Nearest telephone: location and number
 - Location of toilet, water, food, and other supplies
 - Safety: Location of fire ext., AECAED, first Aid aid supplies, etc. Review any safety issues.
 - Evacuation procedures
 - Summary of previous operational period
 - Current status of people, resources, incident (as it relates to communications)
 - Pending issues for next operational period (if any)
 - Introduces replacement to the rest of the team
- Attends debriefing, if available
 - Provides constructive feedback to help event/incident planning in the future
 - Receives constructive feedback to help improve individual skills in the future

Field Communications

The following additional standard methods and procedures apply when performing any type of communications assignment in the field

- Selects an appropriate operating location
 - Minimizes set-up time to be on air at start of shift
 - Easily located by people who need to make use of radio communications
 - Convenient for the served agency, ideally, near their own communications station
 - As quiet as possible and practical for effective communications
 - Does not block movement or traffic flow (vehicle or otherwise)
 - Clear space to deploy antennas
 - Safe
- Ensures adequate visibility and presence
 - Deploys “Radio Communications” or other signage (as appropriate)
 - Wears vest and hat (as appropriate)
 - Deploys traffic cones, beacons or other devices as available and appropriate for safety and visibility of the operating position – particularly at night

Net Control

The following additional standard methods and procedures apply when performing net control assignments

- Net Management
 - Regularly announces existence and purpose of directed net
 - e.g., typically, every 10-30 minutes as appropriate for traffic level
 - Effectively organizes check-in process as appropriate
 - e.g., by suffix, by city, traffic precedence
 - Effectively directs traffic for all net participants
 - Enforces net discipline (professionally)
 - Allows non-net-related traffic during breaks in net traffic
 - Uses instructions which avoid doubles (e.g. “the station ending in ...”)
 - When multiple stations are standing by, regularly announces stand-by list
 - Thanks owners and operators of the repeater at appropriate intervals
 - Prepares workspace properly with accessible information (forms, maps, ...)
 - Assigns tactical call signs as appropriate
 - Reminds others to use Tactical Call and FCC call as appropriate
- Field Management
 - Keeps track of status of all stations on the net
 - Performs regular health & welfare checks of field resources (typically 30 min.)
 - Provides information and status updates, as available, to field on a regular basis
 - e.g., warnings, advisories, PIO statements, or other appropriate info
 - Maintains calm at all times and helps field operators to remain calm

Shadow Communications

The following additional standard methods and procedures apply when performing shadow communications assignments

- Effectively manages communications for the assigned principal
 - Introduces self
 - Informs principal of why you are there, what capabilities you can provide
 - i.e. capabilities are limited to communications, not other duties
 - Discusses communications expectations with principal
 - e.g., cell phone, commercial radio, FRS/GMRS
 - Discusses and understands the role and responsibilities of the principal and what types of communication are important to the principal
 - Keeps principal informed of significant event activities heard on the net which are appropriate to the principal
 - Effectively prioritizes traffic to/from principal so as not to monopolize the net

- Ensures that principal is always reachable by Net Control
- Limits activities to communications
- Maintains close and continuous contact with the assigned principal
 - Stays within an effective distance of the principal
 - e.g., typically 5-10 feet, but out of the crush
 - Remains with principal until relieved by Net Control
 - Coordinates bathroom breaks to avoid becoming disconnected from principal
 - Exchanges cell phone numbers with principal (when/where appropriate)
 - Establishes procedure to reconnect if separated
 - Arranges activities so as to stay connected to principal

Packet Communications

The following additional standard methods and procedures apply when performing packet communications assignments.

- Effectively operates packet message software
 - Properly configures Outpost parameters that can change with the operator or specific incident (call sign, user name, tactical call (if any), BBS); can verify at bottom of Outpost window (status line)
 - Properly formats message subject line, including message number, handling order, and subject
 - Properly prioritizes message traffic
 - Creates, saves, edits, sends, retrieves, reviews and prints packet messages
 - Properly generates ICS-309 log and prints out or saves to offline storage on a regular basis in case of computer failure
 - Uses Outpost "Send/Receive Notification" pop-up window to monitor packet transmission progress
 - Polls BBS (e.g., Outpost Send/Receive) to verify connectivity when no traffic has been sent or received at the station for 30 minutes, , unless otherwise instructed.
 - Promptly reports any problems to Net Control of message net and to shift supervisor
- PackItForms
 - Maintains familiarity with applicable forms (Go-Kit forms) and hospital forms if applicable
 - Creates, saves, edits, sends, retrieves, reviews and prints PackItForms messages
- TNC
 - Maintains familiarity with typical TNC operations, including cabling and set-up.
 - Properly configures TNC parameters that can change with the operator or specific incident (date, time, mycall, mypbbs, and xmtlvl if applicable)

- Close Out & Archiving
 - Checks with supervisor before closing out the packet station
 - Creates 309 Message Log
 - Performs archiving of files and prepares station for next use.

HF Communications

The following methods and procedures standards apply when performing HF communications assignments.

[PRELIMINARY – WORK IN PROGRESS]

Equipment

General

The following standards apply to equipment maintained by all operators.

- Maintains all required items in the county standard 2-hr Carry Kit nearby at all times and able to communicate within minutes
 - The Carry Kit is a small, portable kit, containing just a few items that all operators keep with them, so they can communicate quickly and for just a few hours in the event of an emergency.
 - It is intended to allow the operator to communicate with the Resource Net during Level 1 Resource Net operations (information gathering) and to allow the operators to remain in contact with Net Control while returning home to pick up their 12-hour Go Kit.
 - Consult the county website for details.
- Maintains all required items in the county standard 12-hour Go Kit in a portable (preferably water resistant) container(s)
 - The Go Kit is a comprehensive set of items that allows the operator to work fully independently for up to 12 hours, regardless of time (day, night) or conditions (cold, hot, wind, rain)
 - It is expected that most operators will need to return home to retrieve their Go Kit. When doing so, the Carry Kit allows them to remain in contact with net control.
 - Consult the county website for details
- Maintains and operates all equipment in a safe manner at all times

- Maintains positive control over radio at all times
 - Prevents open mic situations by securing microphone and PTT connectors, disabling VOX, locking the keypad, and other actions appropriate to the particular radio and the situation (for example: Wires on Yaesu radios)
 - Prevents unintended frequency or other settings changes by securing connectors, locking the keypad, and other actions appropriate for the particular radio
 - Regularly verifies radio status to ensure proper settings and proper mic function

Identification, Clothing and Personal Gear

Each operator is responsible for maintaining and carrying with them the appropriate clothing and personal gear necessary for the assignment.

- Identification
 - Wears city, county or other agency badge or identification card, if issued
 - Carries amateur radio license
 - Wears (preferable) or carries Credential qualification card
 - For Mutual Aid Communicators
 - Wears MAC badge, if issued; otherwise, wears or carries Santa Clara County Disaster Service Worker card
- Clothing
 - Wears sturdy, closed-toe shoes (no sandals)
 - Wears long pants, unless other attire is specifically approved by the event management staff
 - Wears shirt appropriate for the assignment
 - Carries or wears a hat (broad brim recommended) for protection from the sun and elements
- Personal Safety Gear
 - Wears personal ANSI Class 2 safety vest, safety yellow/lime yellow in color, unless provided with an alternative by the event management staff
 - Carries a flashlight or headlamp and spare batteries for 12 hours
 - Carries or wears other Personal Protective Equipment (PPE), such as hard hat, safety glasses or goggles, work gloves and/or other gear as appropriate for the assignment and as directed by the event management staff
- Food and water
 - Carries food and water necessary for the length of the assignment

Portable Equipment

- Maintains personal HT radio, power source and antennas as defined in the Santa Clara County 12-Hour Go Kit Checklist.
- Maintains radio familiarity and ability to manually (via the keypad) configure radio to perform each of the following without hesitation or delay and without the use of documentation.
 - Simplex without tone
 - Simplex with tone and tone squelch
 - Repeater with offset and CTCSS tone
 - Save configurations to and recall from memory
 - Lock keypad or mic controls, if so equipped
 - Full/factory reset (clear all settings) [explain only; demonstration not required]

Mobile FM Equipment

The following additional standards apply when mobile/remote base station equipment is required. Note that any requirements for a mobile rig are in addition to, and not a replacement for the required items in the county standard 12-hour Go Kit.

- Maintains the following additional radio equipment
 - 2m/70cm dual-band mobile rig (25 Watt minimum)
 - Radio user manual and/or radio programming cheat sheet
 - Headphones (headset and foot switch recommended)
 - Charged batteries for 12 hours of operation (for lead-acid: 20 Ah minimum; 26 Ah recommended)
 - Ensures battery terminals are insulated, no exposed terminals
 - Power cable adapters to connect mobile radio to the following types of connectors:
 - Powerpole
 - Cigarette lighter socket
 - Vehicle battery terminals
 - 2m/70cm dual-band portable base antenna, such as a roll-up J-pole
 - Portable push-up mast; must raise base of antenna at least 10 feet
 - Tripod or other self-supporting base for mast with appropriate weights for each leg
 - Traffic cones and/or caution tape to alert people to presence of trip hazards
 - Coax adapters to connect mobile radio to coax and coax to the following types of antenna connectors:
 - BNC plug (male) and BNC socket (female)
 - UHF plug (PL-259) and UHF socket (SO-239)
 - N-type plug and N-type socket

- Maintains radio familiarity and ability to manually (via the keypad) configure radio to perform each of the following without hesitation or delay and without the use of documentation.
 - Simplex without tone
 - Simplex with tone and tone squelch
 - Repeater with offset and CTCSS tone
 - Save configurations to and recall from memory
 - Lock keypad or mic controls, if so equipped
 - Set-up crossband repeat if appropriate for credential level
 - Full/factory reset (clear all settings) [explain only; demonstration not required]

Packet Equipment

The following additional standards apply when Packet equipment is required:

- Laptop, netbook or other portable, battery operated style of PC capable of running Outpost and PackItForms (currently supported version of MS Windows)
- Outpost and PackItForms installed and properly configured according to county standard settings
- Sufficient battery power to operate packet station (including PC and printer) continuously for at least one hour on battery (to handle AC power gaps, generator refueling, etc.)
- USB flash drive (i.e. "USB Key")
- Configured and working 1200 baud TNC (may be hardware or software or built into radio)
- All appropriate radio, audio and data cables
- Maintains personal packet station familiarity and ability to configure packet station without hesitation or delay and without the use of documentation.
 - Radio: Band, Frequency (simplex, no tone)
 - TNC: date, time, MYCALL , MYPBBS, and XMTLVL if appropriate
 - Outpost and PackItForms: configured according to county standard settings

HF Equipment

The following additional standards apply when HF equipment is used:

[PRELIMINARY – WORK IN PROGRESS]

- HF Radio with the following capabilities
 - Power: 100 watts
 - Bands: 80m through 10m
 - Modes: CW, SSB, (data modes?)

Documentation

- Maintains personal documentation on person or in Go Kit
 - Amateur Radio license
 - California driver's license or California state-issued ID card
 - Santa Clara County Emergency Response ID (blue card) or MAC Badge
 - Other county and city ID cards, if issued
 - Credential Qualification wallet card printed & laminated
 - Personal emergency contact person information
 - Maintains personal "ICE" (In Case of Emergency) numbers in your cell phone
- Maintains operational documentation in Go Kit
 - Voice and packet frequency lists
 - List of direct-dial emergency numbers for local police, fire, EMS
 - County DEC/ADEC and city EC phone lists
 - Paper or offline maps covering all of Santa Clara County
 - Must be usable without connectivity to any type of network and must have sufficient power for 12 hours (if on phone, must work in airplane mode)
 - A current copy of Message handling Procedures
 - A current copy of Performance Standards and Best Practices
- Maintains current sufficient copies of the following standard forms in Go Kit Forms:
 - ICS 205-SCCo - RACES Communications Plan (minimum of 5)
 - ICS 211A-SCCo - Check-In List (Communications) (minimum of 5)
 - ICS 213-SCCo - Message Form (minimum of 10)
 - ICS 213RR-SCCo - EOC Resource Request (minimum of 5)
 - ICS 214-SCCo - Unit Activity Log (minimum of 5)
 - ICS 309-SCCo - Communications Log (minimum of 5)
 - ICS 314-SCCo - Windshield Survey (minimum of 5)
 - SCCo - OA Jurisdiction Status (minimum of 3)
 - SCCo - OA Shelter Status (minimum of 3)
 - SCCo - Allied Health Facility Status (minimum of 3)
 - RACES - Radio Routing Slip (minimum of 5)
 - RACES - Recommended Form Routing Cheat Sheet (minimum of 2)
 - 2-part phone message pad for informal messages
 - Hospital forms if assigned

- Completes all documentation accurately, legibly, promptly, and signed as appropriate
 - Resource Net tracking via form, T-cards or similar method
 - Individual assignments tracked via form, T-cards or similar method
 - ICS 205 Communications Plan documents frequencies and modes used
 - ICS 211A Communications Sign-In used to sign in/out all participants
 - ICS 214 Unit Activity Log initiated when assignment is received and completed by all participants
 - ICS 309 Communications Log completed by net controls and other appropriate (high message traffic) positions
 - ICS 213 Message Form used for formal messages
 - 2-part phone message pad used for informal messages
- Submits completed documentation to supervisor promptly at end of shift or as requested

Notes

1. Most recently manufactured hand-held radios ARE capable of 5W output when 12-13.8 VDC is connected to the DC-IN jack and at least 2.5W output power using rechargeable battery packs. Check your radio's user manual to be sure your radio outputs at least 2.5W on rechargeable batteries. However, most hand-held radios are NOT capable of producing a minimum of 2.5W output power using AA batteries. Some known exceptions are the Kenwood TH-D7 and the Yaesu FT-60. For all other radios, rechargeable battery packs will be needed unless the radio can be shown to have a minimum of 2.5W output on AA batteries (check user manual or test with power meter).
2. A review of the most popular handheld radios was conducted. Receive current, transmit current and rechargeable battery pack capacity were reviewed. 3000 mAh was determined to be the minimum capacity needed for 12 hours of operation. (Some radios may require a little more). Depending on the make and model, this translates to 2 or 3 rechargeable battery packs. This minimum requirement correlates well with real-world experience in drills and real incidents such as Katrina.

Revision History

Version	By	Description
2.2	KE6TIM Tim Howard	Enhancements and clarifications, changed PacFORMS to PackItForms, updated list of forms, added change bars to margin. Rev. 04/27/2022
2.1.1	N6MEF Michael Fox	Minor clarifications: handling order, switching between nets
2.1	N6MEF Michael Fox	Resolved conflicting clothing requirement in Safety. Existing requirements remain under Equipment > Identification, Clothing and Personal Gear. Minor typographical fixes.
2.0	N6MEF Michael Fox	Enhancements and clarifications to: prowords, resource net, debriefing, packet communications, identification, clothing, packet equipment. Other minor typographical fixes.
1.0.4	N6MEF Michael Fox	Minor grammatical changes.
1.0.3	N6MEF Michael Fox	Added update and notice policy; Communications Technique: added good hearing; Safety: added take shelter from lightening; Documentation: added section on completing documentation; Equipment: added section on clothing and personal gear; several clarifications.
1.0.2	N6MEF Michael Fox	Change title from "MAC Performance Standards" to "Performance Standards and Best Practices". Adjusted Usage Guidelines to reflect broad applicability to all county ARES/RACES. Added adaptability to the served agency section under Professionalism. Reorganized shadow requirements for better reading.
1.0.1	N6MEF Michael Fox	Minor typographical corrections; clarification of headphones vs. headset requirement in portable equipment section; several clarifications to packet equipment section
1.0	N6MEF Michael Fox	First public release of document