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2015 Year End Summary

Updates and Review



Santa Clara County ARES®/RACES

Revised: 10-Dec-2015

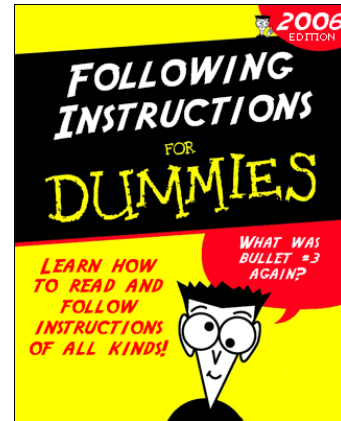
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Housekeeping

- Refreshments
- Pen/pencil & paper
- Cell phones & pagers
- Side conversations
- Questions
- Breaks
- Restrooms
- In case of emergency



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Agenda

- An update on changes that have occurred during the past year, plus a review of some key procedures.
- Topics covered:
 - Packet
 - Data Network Infrastructure
 - Net Control
 - Audio Excerpts
 - Forms Review
 - Mesh / Wi-Fi Review
 - Training Updates


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Packet Review

2015 Year End Summary



Santa Clara County ARES®/RACES

Revised: 05-Dec-2015

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FCC/User/Personal vs Tactical Calls

- FCC/User/Legal Call Sign
 - Identifies a single person as an operator
 - Follows the person
 - Independent of assignment, function, etc.
 - Used for check-in, check-out, personal requests
- In contrast, a Tactical Call identifies a location or function...

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FCC/User/Personal vs Tactical Calls

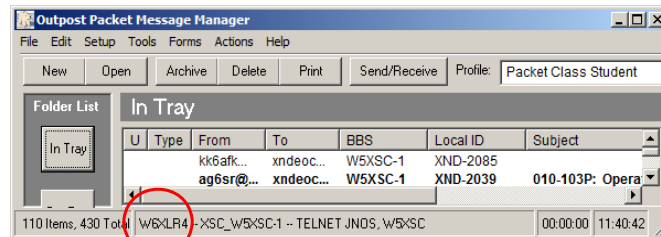
- Tactical Call Sign
 - Identifies a function or location
 - Shelter, fire station, EOC, Staging
 - Does not change when the operator changes
 - Used for activities of the location/function
 - Six characters long
 - Three letter prefix unique to the Served Agency
 - Three character suffix unique to the location
- Examples for Xanadu Drill City
 - XNDEOC XND001 XNDEV2

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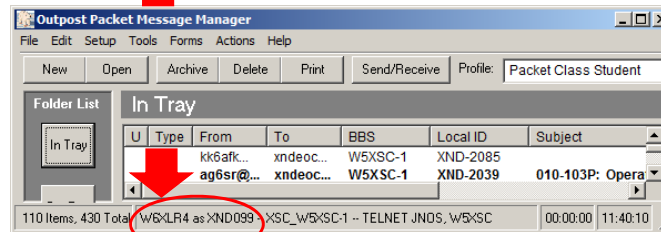
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Outpost Shows Which Call Sign is Used

- FCC Call:
Only the call sign is shown



- Tactical Call:
“... as XXXXXX”



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Manual Login with Tactical Call

- Call sign of TNC determines call sign that BBS sees for login/connect
 - TNC:
 - *CMD*: MYCALL **W6XRL4**
 - *CMD*: CONNECT W5XSC-1
 - W5XSC BBS: connects user and places in **W6XRL4** mailbox
- To login manually (no Outpost) with a tactical call such as XNDEOC:
 - TNC:
 - *CMD*: MYCALL XNDEOC
 - *CMD*: CONNECT W5XSC-1
 - W5XSC BBS: connects user and places in XNDEOC mailbox

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Manual Login with Tactical Call - ID

- Need to ID every 10 minutes and at end of session. On TNC:
 - Disconnect from BBS
 - In command mode, type
 - *CMD*: CONVerse ← Enters converse mode; whatever is typed is sent out
 - FCC ID = W6XRL4; Tactical Call = XNDEOC
 - <CTRL-C> ← Returns to command mode
- CMD*:

At end of session, switch MYCALL back to normal:

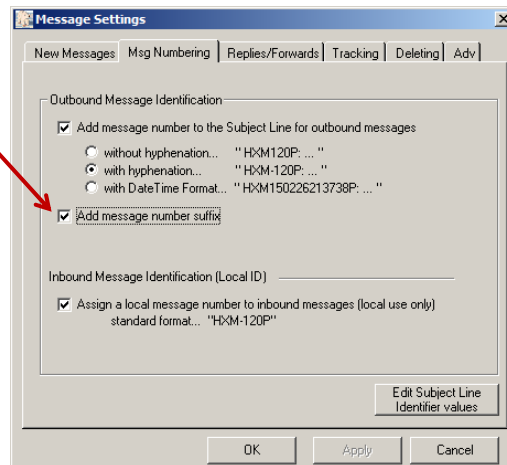
CMD: MYCALL W6XRL4

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Message Number "P" Suffix

- The P suffix is added to the message number by **Outpost**
- It does not mean that it was a packet message, it just means that **Outpost assigned the number**
- The P was added to reduce the possibility of duplicate message numbers from other message forms
- **Box should be checked**



Message Numbers

- Don't change the message number you are given!
- If you are given:

MESSAGE FORM <small>Use Ballpoint Pen—Press Hard; Print Clearly (See back for instructions)</small>	When Receiving ² Msg.: Sender's msg. #	Msg. #	When Sending Msg. ³ Receiver's msg. #
		XND-123	
Date: MM/DD/YYYY ¹ Situation Severity (✓one) ⁴ Msg. Handline Order (✓one) ⁵ Message Requests You To: ⁶			

- Then type

EOC MESSAGE FORM <small>PacFORMS adaption of SCoCo ICS Form 213 (Ver. PR-4.1-2.9) - PacRELEASE 4.1 By Phil Henderson, KF6ZSQ (This form works with Outpost/OpDirect for Automatic ASCII text save) For instructions using this form Click Here.</small>	2.) When Receiving Msg.: Sender's msg. #	Msg. #	3.) When Sending Msg.: Receiver's msg. #
		XND-123 RED Areas Required	
<input type="checkbox"/> Uncheck msg. nos. 2 & 3			

- It's that simple.



PACKET OPERATIONS

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Packet Operator Field Activities Summary

- **Mobilize to Assignment Location**
 - Use FCC call for communications

- **Execute During Operational Period**
 - Use Tactical Call for location message
 - Use FCC call for personal messages

- **Demobilize and return home**
 - Use FCC call for communications

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Mobilize To Assignment

- Upon arrival at the site
 - Sign in on ICS 211 Check In List
 - Check in with site supervisor
 - Update your 214
- Get briefing from previous operator
- Assess packet equipment
 - Radio settings and connections
 - TNC settings
- Check in to assigned voice net

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Prepare/Check Outpost

- Check Outpost settings before transmitting
 - Correct BBS
 - Frequency
 - TNC settings
- If emergency, remove “xsctest” from bulletin list
- If needed, set up your User Identification with your **Tactical Call** for the Served Agency check in message

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Served Agency Check In Message

- Begin the Operational Period with a packet check in message to the Served Agency
- Send a text message using your assigned (Tactical or FCC) call sign with the following information
 - Name and Call of Packet Operator
 - Name and Tactical call of Packet Station, if used
 - Time the packet station was operational
- Update personal 214
- Do a “Send/Receive” to get any pending messages and bulletins
- Begin operations

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Opening Outpost – User Identification

- Using your FCC call sign
 - User call sign
 - Your FCC call sign
 - Name
 - Your full name
 - Message ID Prefix
 - 3 letter prefix used in message number
 - Set according to your served agency policy
 - Or use your initials
- Unclick - **Use Tactical Call**
 - When fields are greyed out – using FCC call

- When you take over a shift as a Packet Operator, you will need to change User Call sign and User Name

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Operational Period Using a Tactical Call

- To use a Tactical Call
 - Check “Use Tactical Call ...”
Outpost will connect to the BBS using this call sign
- Fill in Tactical Call Sign
- Additional ID Text
 - Sent along with FCC call sign and tactical call in final ID packet
- Message ID Prefix
 - 3 letter prefix used in message number
 - Set according to your served agency policy

The screenshot shows the 'Station Identification' dialog box with the following fields and values:

- Current Profile: Packet Class
- Legal:
 - User Call Sign: W6CLR4
 - User Name: Herman Munster
 - Message ID Prefix: H0M (3 Characters max)
- Tactical:
 - Use Tactical Call for all BBS interaction
 - Tactical Call Sign: >NDE0C (6 Characters max)
 - Additional ID Text: >Xanadu EOC
 - Message ID Prefix: >ND (3 Characters max)
- Show this form on startup

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During Operational Period

- Send, receive, process packet messages
- Check for new bulletins and follow any new instructions
- Maintain voice radio contact
- Maintain ICS 214 Unit Log
- If prolonged period of inactivity (30+ minutes)
 - Perform a “Send/Receive” operation to verify connection with BBS
 - Message not needed
- Report any problems as instructed
 - Site supervisor
 - Voice net

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Demobilization

- Send a text message to the Served Agency using your assigned (Tactical or FCC) call sign
 - Name and Call of Packet Operator
 - Name/Tactical call of Packet Station, if used
 - Time the packet station is assigned to a new operator
- Or
 - Time the packet station is being deactivated
- Brief the incoming operator
- Paperwork!
- Check out with site supervisor
- Sign out on the Site ICS 211
- Update your ICS 214

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NETWORK INFRASTRUCTURE IMPROVEMENTS

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Key Focus in 2015

- Backbone redundancy, prep for higher speed access
 - Each site to have at least two high-speed ($n * 10$ Mbps) links
 - Upgraded link between W2XSC and W4XSC (80 Mbps)
 - ½ completed new link between W2XSC and W1XSC
 - Still looking for new site in NW part of county for W3XSC
- Hardened backbone sites
 - Improved routing infrastructure
 - Improved UPS runtime in the event of a generator failure
 - Result: 6+ hours of battery runtime at Crystal Peak
 - Frazier Peak is next
 - Improved remote sensor infrastructure

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UPS Runtime Improvements (6+ hours!)



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Remote Monitoring Improvements

Unit: CPK-ENV1 Model: ENVSDRHX-1500P
 Uptime: 12 days, 5 hours, 50 mins
 Current Time: 11-20-2015 05:17:34 PM

Summary

Internal Sensors

No.	Description	Type	Value	Status	Action
1	Internal Temperature	Temperature	79.7°F	Normal	View Edit
2	Internal Humidity	Humidity	29%	Normal	View Edit
3	Input Voltage	Voltage	13.6V	Normal	View Edit

Sensors

Conn.	Description	Type	Value	Status	Action
1	Thermostat Temp (Th1)	Temperature	73.1°F	Normal	View Edit Delete
1	Thermostat Humidity (Th1)	Humidity Combo	34%	Normal	View Edit Delete
2	Room Temp (Th2)	Temperature	76.6°F	Normal	View Edit Delete
2	Room Humidity (Th2)	Humidity Combo	30%	Normal	View Edit Delete
3	Cabinet Temp (Th3)	Temperature	77.7°F	Normal	View Edit Delete
3	Cabinet Humidity (Th3)	Humidity Combo	30%	Normal	View Edit Delete
9	Main AC Vols (DC1.1)	AC/DC V AC Voltage	116.9V	Normal	View Edit Delete
9	Main AC Freq (DC1.1)	Frequency	60.1Hz	Normal	View Edit Delete
9	Inverter AC Vols (DC1.2)	AC/DC V AC Voltage	123.2V	Normal	View Edit Delete
9	Inverter AC Freq (DC1.2)	Frequency	60.0Hz	Normal	View Edit Delete
9	DC UPS Batt1 Vols (DC2.1)	Voltage	13.6V	Normal	View Edit Delete
9	DC UPS Batt2 Vols (DC2.2)	Voltage	13.6V	Normal	View Edit Delete
10	AC UPS Batt1 Vols (DC3.1)	Voltage	13.5V	Normal	View Edit Delete
10	AC UPS Batt2 Vols (DC3.2)	Voltage	13.6V	Normal	View Edit Delete
11	DC UPS Load Vols (DC3.1)	Voltage	13.9V	Normal	View Edit Delete
11	AC UPS Load Vols (DC3.2)	Voltage	14.0V	Normal	View Edit Delete

Digital Inputs

Conn.	Description	Type	Value	Status	Action
8	Smoke	Digital Input	Open	Normal	View Edit Delete

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New Crystal Peak Cabinet



Side View



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Net Control Review

2015 Year End Summary




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Relief Briefings

- All defined in the “Performance Standards and Best Practices”
 - Assignment, activation number
 - Served agency, person in charge, how recognized
 - Frequencies, tactical calls, locations, contact numbers
 - Who to contact regularly
 - Radio, power supply, antenna information
 - Nearest telephone: location and number, how to dial out
 - Location of toilet, water, food, first aid, and other supplies
 - Summary of previous operational period
 - Current status of: people, resources, incident
 - Pending issues for next operational period
 - Introduce replacement to rest of team

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Local Net Transfer/Handing-off



- For local hand-off with single net control operator
 - Relief operator can work as scribe briefly, just prior to hand-off
- For local hand-off with net control & scribe team
 - Replacement arrives early, familiarizes self with location
 - Replacement receives briefing from shift supervisor
 - Net Control runs net solo while scribe briefs replacement with details
 - Scribe catches up on anything missed
 - Net Control announces shift change, stand by for 30 seconds
 - Scribe slides into net control seat; replacement slides into scribe seat
 - Replacement → Scribe → Net Control → Break
 - Announce that net is resumed

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Remote Net Transfer/Hand-off

- You may need to transfer a net to a remote net control
 - Initial resource net control transfer to EOC or event location
 - Hand off to a more experienced net control operator
 - Evacuation of net control location
- Information to transfer
 - Current status of all who are checked into net
 - Resource Net transfer involves current en route status information
 - Any other instructions as may be necessary; see relief briefing list
- Key points
 - Priority One: Maximize accuracy; losing someone is not an option!
 - Priority Two: Minimize transfer time
 - Always use good communications techniques: 5 words at a time; proper pro-words; pause before speaking; eliminate need for repeats

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Procedure for Transfer of Net

NC1 = Current Net Control

NC2 = Replacement Net Control

Who	What
NC2	Announces presence; ready for net control transfer
NC1	Acknowledge; announce start of H&W; requests NC2 to acknowledge each response with a tactical call such as "net2" (or similar)
NC1	Calls each person, one at a time, <u>phonetically</u>
Individuals	Respond as usual (for resource net: street location, odometer, call sign)
NC2	"acknowledged, net2" or "roger, net2"; or "say again ..."
NC1	Acknowledges; repeats process for rest of people on net
NC1	Fills in NC2 on any other pending issues; asks if ready to take net
NC2	Acknowledges all info; confirms ready
NC1	Announces transfer of net
NC2	Announces self as net control

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Exercise: Transfer of Level 3 Resource Net

- Need 5 volunteers
 - Net control 1
 - Net control 2
 - Scribe for net control 2 (optional)
 - Traveler 1
 - Traveler 2
- Before you start:
 - Net Control 1: write down traveler call signs
 - Travelers: make up a street location and odometer reading
- Follow the script ...
 - "<...>" indicates where you substitute your actual information
 - Example: <NC2 call sign> means you say Net Control 2's call sign
 - Net Control 2: fill in ICS-309 as you go
 - Scribe for NCO2: fill in Travel Tracking Form as you go

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Exercise: Transfer of Level 3 Resource Net

Who	What
NC2	Net control, this is <NC2 call sign>, ready for net control transfer
NC1	<NC2 call sign> roger; Break; I will now conduct a H&W check; when I call you, respond with street location, odometer and your call sign; <NC2 call sign> I want you to acknowledge each response as tactical call "net2"
NC2	Roger, net2
NC1	<traveler 1 call sign spelled phonetically>, health and welfare
Traveler 1	<Respond with your street location, odometer, call sign>
NC2	Roger, net2
NC1	Acknowledged. <traveler 2 call sign spelled phonetically>
Traveler 2	<Respond with street location, odometer, call sign>
NC2	Say again odometer
Traveler 2	<Respond with odometer>
NC2	Roger, net2
NC1	Health and welfare check complete

Continued on next page ...

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Exercise: Transfer of Level 3 Resource Net

Continued from previous page ...

Who	What
NC1	Net2 did you need any other fills?
NC2	Negative
NC1	O.K. Additional information follows: You need to contact Jenny at 867-5309 to unlink the repeaters after you close the net.
NC2	Acknowledged.
NC1	Are you ready to take the net?
NC2	Affirmative.
NC1	This is <NC1 call sign> turning over net control to <NC2 call sign>; <NC1 call sign> clear.
NC2	This is <NC2 call sign>, net control for the Santa Clara County Resource Net. This is a directed net...


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Performance Review

2015 Year End Summary



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Note: Examples from actual nets and ICS forms will be used to illustrate areas that we all need to work on.



On-Air Performance Review

2015 Year End Summary

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Instructions








- Listen to each recording
- Give a thumbs-up if it was properly done
- Give a thumbs-down if it could be improved
- Be ready to justify your opinion
- If it can be improved, how would you say it better?



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Resource Net

- Net Control Instructions 
- Check-In   
- Check-Out   

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Tactical Net – Dealing with Tactical Call Signs

- Net Control ID 
- Tactical Call Sign Check-in/Assignment   
- Tactical Call Assignment Change 
- In Position   
- Check-Out 

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Tactical Net – Gathering Information

- NCO pre-announce info request, format 
- NCO instructions before gathering reports 
- Info Reports     
- Health & Welfare 

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Tactical Net – Other Directed Net Activities

- NCO Instructions 
- Directed Net 
- Status Update     
- Dead Air 
- Temporarily Leave Net / Return  
- Ask/Receive Info 

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Shadow Net – Open Net

- Prowords 
- Listen up!   
- Status Reports    
- Radio configuration 
- Tactical Call conversation 
- Noise!   

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Hospital Net – Directed Net

- Message Handling Order 
- Message Passing  
- Dealing with interference 
- Radio configuration  

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Key Points

- Net control operators:
 - Define expected response format
 - Pre-announce upcoming information gathering, when possible
 - Give instructions that avoid doubles
- Net participants
 - Listen up and answer promptly when called
 - Answer in requested format -- no more, no less
 - When using tactical calls, call and answer using tactical call
- All
 - Attend training! Best performers had more training.
 - Know how to configure your radio; check configuration before using
 - Minimize the number of words (on-air time) used
 - Observe proper handling order at all times
 - Use proper prowords at all times
 - Be prepared for the environment: noise, heat, cold, rain, ...
 - The last thing you say should be your FCC call sign

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Forms Review

2015 Year End Summary



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ICS 214 – Unit Activity Log

- Our version: ICS 214-SCCo
- A record of all major activities and events
- EVERYONE fills out a 214
 - Individuals: a unit of one
 - Teams: Team leader
 - Start when you get assignment (home)
- Occasional message traffic?
 - Just log it right on the 214
- Use multiple pages if necessary
- Turn in to supervisor at end of shift
- Instructions on back
- Neatness counts

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

Exercise: ICS-214 Unit Log

- Create an ICS-214 log for the following scenario in City of Xanadu (XND)
 - Incident is “Tree Lighting”, activation number: XND-15-TLE
 - You are assigned a Tactical Call of “Rover 1”
 - The Event IC is Herman Munster W6XRL4
 - The event is scheduled for 1600 to 2100 hours today
 - You leave home at 1515 hours, mileage 123
 - You arrive at the staging location at 1545 hours, mileage 133
 - The event starts at 1600
 - Lots of activities take place during your 5 hour shift such as: H&W, shift change, breaks, messages, etc. (we won’t log these for this exercise to save time)
 - You are released at 2105 and check out of staging

Your ICS-214 should be completed as you would submit it when checking out



Exercise: ICS-214 Unit Log

UNIT LOG ICS 214-SCCo ARES/RACES	1. Incident Name and Activation Number <i>Xandu Tree Lighting</i> <i>XND-15-TLE</i>	2. Operational Period (Date/Time) <i>12/12/2015</i> <i>12/12/2015</i> From: <i>1600</i> To: <i>2100</i>
3. Unit Name / Tactical Call / Designators <i>Rover 1</i>		4. Unit Leader (Name, Call Sign, ICS Position) <i>Your Name, Your FCC Call Sign</i>
5. Personnel Roster Assigned		
Name	Call Sign	ICS Position Home Base/City

UNIT LOG ICS 214-SCCo ARES/RACES	1. Incident Name and Activation Number <i>Xandu Tree Lighting</i> <i>XND-15-TLE</i>	2. Operational Period (Date/Time) <i>12/12/2015</i> <i>12/12/2015</i> From: <i>1600</i> To: <i>2100</i>
3. Unit Name / Tactical Call / Designators <i>Rover 1</i>		4. Unit Leader (Name, Call Sign, ICS Position) <i>Man Master W6XRL4</i>
5. Personnel Roster Assigned		
Name	Call Sign	ICS Position Home Base/City
<i>Your Name</i>	<i>Your Call Sign</i>	

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Exercise: ICS-214 Unit Log

Instructions for completing the form:

Field #	Field Title	Instructions
4	Unit Leader	<p>For individuals: Enter your name and call sign</p> <p>For teams: Enter the name, call sign and ICS position of the individual in charge of the unit.</p>
5	Personnel Roster	<p>For individuals: Leave blank</p> <p>For teams: List the name, call sign, ICS position and home base/city of each member assigned to the unit during the operation period.</p>

Most forms have the instructions on the back

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Exercise: ICS-214 Unit Log

UNIT LOG ICS 214-SCCo ARES/RACES	1. Incident Name and Activation Number <i>Xandu Tree Lighting</i> <i>XND-15-TLE</i>	2. Operational Period (Date/Time) <i>12/12/2015 12/12/2015</i> From: <i>1600</i> To: <i>2100</i>
3. Unit Name / Tactical Call / Designators <i>Rover 1</i>		4. Unit Leader (Name, Call Sign, ICS Position) <i>Your Name, Your FCC Call Sign</i>
5. Personnel Roster Assigned		
Name	Call Sign	ICS Position
Home Base/City		
6. ACTIVITY LOG		
Time (24:00)	Major Activities & Events / Occasional Messages (Indicate From / To / Msg# / Msg Text)	
<i>1515</i>	<i>Left Home, OD 123</i>	
<i>1545</i>	<i>Arrived at staging, OD 133</i>	
<i>1600</i>	<i>Event starts</i>	
<i>2105</i>	<i>Released, checked out of Staging</i>	
7. Prepared By (Name, Call Sign, ICS Position) <i>Your Name, Your FCC Call Sign</i>		8. Date & Time Prepared <i>12/12/2015 - 2105</i>
		9. Page <u><i>1</i></u> of <u><i>1</i></u>

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UNIT LOG ICS 214-SCCo ARES/RACES	1. Incident Name and Activation Number <i>XSC-15-117</i> <i>Les Altes Festival</i>	2. Operational Period (Date/Time) <i>30 Nov 2015</i> From: <i>1830</i> To: <i>2030</i>
3. Unit Name / Tactical Call / Designators <i>Checkpoint 7</i>		4. Unit Leader (Name, Call Sign, ICS Position) <i>Tom Clark, IC</i>
5. Personnel Roster Assigned		
Name	Call Sign	ICS Position
Home Base/City		
6. ACTIVITY LOG		
Time (24:00)	Major Activities & Events / Occasional Messages (Indicate From / To / Msg# / Msg Text)	
<i>15:34</i>	<i>Depart from home</i>	
<i>15:45</i>	<i>Arrive at staging</i>	
<i>16:10</i>	<i>Tragging debris</i>	
<i>16:40</i>	<i>Walking and walk to position</i>	
<i>17:30</i>	<i>In position - work check</i>	
<i>18:05</i>	<i>Close out work - Java box + grill</i>	
<i>18:30</i>	<i>Health + welfare</i>	
<i>19:22</i>	<i>Sign out</i>	
7. Prepared By (Name, Call Sign, ICS Position)		8. Date & Time Prepared
		<i>11/24</i>
		9. Page <u> </u> of <u> </u>

ICS 214-SCCo ARES/RACES (rev. 2009-Sep-25)

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UNIT LOG		1. Incident Name and Activation Number ICS 214-SCCo ARES/RACES	2. Operational Period (Date/Time) 11/29/15 From: 1530 To: 1925
3. Unit Name / Tactical Call / Designator ROVER B / CHANGED TO ROVER 2		4. Unit Leader (Name, Call Sign, ICS Position)	
5. Personnel Roster Assigned			
Name	Call Sign	ICS Position	Home Base/City
6. ACTIVITY LOG			
7. Time (24 Hr) Major Activities & Events / Occasional Messages (Indicate Priority / To / From / Msg Text)			
1530	DDO-063 - READY TO DEPART		
1600	ARRIVED LOS ALTOS DDO 063		
1630	PI CHECK		
1637	ASSIGNED ROVER B.		
1645	BRIEFING -		
1700	IN POSITION		
1715	RETURN TO STAGING, CHANGE TO ROVER 2.		
1733	UN STATION - RG.		
1740	EQUIPMENT WEARE -		
1834	HEALTH/WEARE -		
1845	RETURNED, PREPARING TO STAGING.		
1923	SIGNED OUT		
7. Prepared By (Name, Call Sign, ICS Position)		8. Date & Time Prepared 11/29/15	9. Page 1 of 1

ICS 214-SCCo ARES/RACES (rev. 2009-Sep-25)

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Good Detail

UNIT LOG		1. Incident Name and Activation Number ICS 214-SCCo ARES/RACES	2. Operational Period (Date/Time) 11/29/15 From: 1530 To: 1925
3. Unit Name / Tactical Call / Designator Check Point 4		4. Unit Leader (Name, Call Sign, ICS Position) KIM CLK / N6JRC	
5. Personnel Roster Assigned			
Name	Call Sign	ICS Position	Home Base/City
6. ACTIVITY LOG			
7. Time (24 Hr) Major Activities & Events / Occasional Messages (Indicate Priority / To / From / Msg Text)			
15:21	Check-in in department		
15:26	Arrive at staging		
16:10	Check-in - Assigned Check Point 4		
17:10	In position		
19:13	Released to staging		
7. Prepared By (Name, Call Sign, ICS Position)		8. Date & Time Prepared 11/29/15 1915	9. Page 1 of 1

ICS 214-SCCo ARES/RACES (rev. 2009-Sep-25)

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Detail Lacking

UNIT LOG
 ICS 214-SCCo
 ARES/RACES

1. Incident Name and Activation Number: County Exercise XCC-15-04T
 2. Operational Period (Date/Time): 2015-04-18
 3. Unit Name / Tactical Call / Designator: [Redacted]

Name	Call Sign	ICS Position	Home Base/City
[Redacted]	[Redacted]	Stearns	S.S
[Redacted]	[Redacted]	Field net	S.S

ACTIVITY LOG
 Major Activities & Events / Occasional Messages (Indicate From / To / Msg / Msg Text)

07-09 145-270 / Monitoring
 07-17 147-405 Simpler
 07-17 Depart adthanged!
 08-30 Report sign in
 09-31 Net Control Stearns net
 10-01 To to Field net
 11-52 Take over some of T road
 Change control to [Redacted]

Prepared By: [Redacted] Date & Time Prepared: 18:00
 APRIL 18 2015 Page 1 of 1

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ICS 213 Message Form

- Message Numbers
- Header
- Address Info
- Message Body
- Action Taken
- Operator Use

MESSAGE FORM
 * Use Red Ink (Pen-Fiber) Blank Print Clearly
 One back for distribution

Date: (mm/dd/yyyy) Situation Severity (1-5) Message Handling Order (1-3) Message Requests You To: (1-3)
 EMERGENCY (e.g. Life Threat) IMMEDIATE (Act Soon as Possible) TAKE ACTION (1-3)
 URGENT (e.g. Property Threat) PRIORITY (Less Than One Hour) REPLY (1-3)
 OTHER (All other) (More Than One Hour) ROUTINE (More Than One Hour) FOR YOUR INFO (no reply required)

ICS Position: (required)¹ To: Location: (required)² From: Location: (required)²
 Name: (optional) Name: (optional)
 Telephone #: (optional) Telephone #: (optional)

SUBJECT: ³
 REFERENCE: (e.g., Number of earlier msg.): ¹¹
 Message: ¹² (what, when, where needed; how long; contact name and phone number) KEEP MSG BRIEF

ACTION TAKEN: ¹³ (For use by Originator / Recipient) * USE SEPARATE MESSAGE FORM IF SENDING REPLY!

CC: Management Operations Planning Logistics Finance

Operator Use Only: ¹⁴
 How Received: see Sent (1-3) Operator Call Sign:
 Telephone Dispatch Centre Operator Name:
 EOC Radio FAX Courier Date: Time:
 Amateur Radio Other

Dispute/Alert: ¹⁵
 Message Originator: Send the top copy (white) to radio, yellow to PLANNING, retain the pink copy for your reference.
 Radio: After sending, complete Disposition info., return white copy for file in radio.
 Increasing Dispute: ¹⁶
 Radio: After receiving, complete Disposition info., route the top copy (white) to the Addresser, yellow to PLANNING, retain pink for file in Radio.
 Addresser: Take appropriate action.

SCCo ICS Form 213
 6/20/2007

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

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MESSAGE FORM		When Receiving Msg.: Sender's msg. #	Msg. #	When Sending Msg. Receiver's msg. #
Date: (optional) 04/18/15		R8-1		XSC-000/37
Situation Severity (✓one) <input type="checkbox"/> EMERGENCY (e.g., Life Threat)	Msg. Handling Order (✓one) <input type="checkbox"/> IMMEDIATE (As Soon as Possible)	Message Requests You To: TAKE ACTION (✓one) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<input type="checkbox"/> URGENT (e.g., Property Threat)	<input type="checkbox"/> PRIORITY (Less Than One Hour)	REPLY (✓one) <input type="checkbox"/> Yes, by <input type="checkbox"/> No		
<input checked="" type="checkbox"/> OTHER (All others)	<input checked="" type="checkbox"/> ROUTINE (More Than One Hour)	FOR YOUR INFO. <input checked="" type="checkbox"/> (no action required)		
ICS Position: (required) Planning	ICS Position: (required) Rm 8	To: Location: (required) Dwell City		
Name: (optional)	Name: (optional) Dwell City	From: Location: (required)		
Telephone #: (optional)	Telephone #: (optional)	Name: (optional)		
SUBJECT: ¹⁰ Vehicles With Ham Antennas				
REFERENCE (e.g., Number of earlier msg.): ¹¹				
Message: ¹² (what, when, where needed; how long; contact name and phone number) KEEP MSG BRIEF				
The Following Vehicles Have HAM Antennas: KRG426L SECP574 837K442 7CPN 967 SRB1902 KPG250 KCPMM				
ACTION TAKEN: ¹³ (For use by Originator / Recipient) USE SEPARATE MESSAGE FORM IF SENDING REPLY:				
CC: <input type="checkbox"/> Management <input type="checkbox"/> Operations <input type="checkbox"/> Planning <input type="checkbox"/> Logistics <input type="checkbox"/> Finance				
Operator Use Only: ¹⁴				
How Received <input type="checkbox"/> or Sent <input checked="" type="checkbox"/> (✓one)		Operator Call Sign:		
<input type="checkbox"/> Telephone <input type="checkbox"/> Dispatch Center		Operator Name:		
<input type="checkbox"/> EOC Radio <input type="checkbox"/> FAX <input type="checkbox"/> Courier		Date:		Time:
<input type="checkbox"/> Amateur Radio <input type="checkbox"/> Other				

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MESSAGE FORM		When Receiving Msg.: Sender's msg. #	Msg. #	When Sending Msg. Receiver's msg. #
Date: (optional) 04/18/15		R8-2		
Situation Severity (✓one) <input type="checkbox"/> EMERGENCY (e.g., Life Threat)	Msg. Handling Order (✓one) <input type="checkbox"/> IMMEDIATE (As Soon as Possible)	Message Requests You To: TAKE ACTION (✓one) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<input type="checkbox"/> URGENT (e.g., Property Threat)	<input type="checkbox"/> PRIORITY (Less Than One Hour)	REPLY (✓one) <input type="checkbox"/> Yes, by <input type="checkbox"/> No		
<input checked="" type="checkbox"/> OTHER (All others)	<input checked="" type="checkbox"/> ROUTINE (More Than One Hour)	FOR YOUR INFO. <input checked="" type="checkbox"/> (no action required)		
ICS Position: (required) Planning	ICS Position: (required) Rm 8	To: Location: (required) Dwell City		
Name: (optional)	Name: (optional) Dwell City	From: Location: (required)		
Telephone #: (optional)	Telephone #: (optional)	Name: (optional)		
SUBJECT: ¹⁰ Available Parking				
REFERENCE (e.g., Number of earlier msg.): ¹¹				
Message: ¹² (what, when, where needed; how long; contact name and phone number) KEEP MSG BRIEF				
Upper Parking Lot Has the Following available parking Available to Handicapped 2 Regular //				
ACTION TAKEN: ¹³ (For use by Originator / Recipient) USE SEPARATE MESSAGE FORM IF SENDING REPLY:				
CC: <input type="checkbox"/> Management <input type="checkbox"/> Operations <input type="checkbox"/> Planning <input type="checkbox"/> Logistics <input type="checkbox"/> Finance				
Operator Use Only: ¹⁴				
How Received <input type="checkbox"/> or Sent <input checked="" type="checkbox"/> (✓one)		Operator Call Sign:		
<input type="checkbox"/> Telephone <input type="checkbox"/> Dispatch Center		Operator Name:		
<input type="checkbox"/> EOC Radio <input type="checkbox"/> FAX <input type="checkbox"/> Courier		Date:		Time:
<input type="checkbox"/> Amateur Radio <input type="checkbox"/> Other				

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MESSAGE FORM		When Receiving Msg. Sender's msg. #	Msg. #	When Sending Msg. Receiver's msg. #
Date: 04/18/15		R13-1	XSC 000143	
Time: 1143		Situation Severity (one)		Msg. Handling Order (one)
<input type="checkbox"/> EMERGENCY (e.g. Life Threat) <input type="checkbox"/> URGENT (e.g. Property Threat) <input checked="" type="checkbox"/> OTHER (All others)		<input type="checkbox"/> IMMEDIATE (As Soon as Possible) <input type="checkbox"/> PRIORITY (Less Than One Hour) <input checked="" type="checkbox"/> ROUTINE (More Than One Hour)		Message Requests You To: <input type="checkbox"/> TAKE ACTION (one) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> REPLY (one) <input checked="" type="checkbox"/> Yes, by <input type="checkbox"/> No <input checked="" type="checkbox"/> FOR YOUR INFO. (no action required)
To: ICS Position: (required) Planning Location: (required) Delia City Name: (optional) Telephone #: (optional)		From: ICS Position: (required) R13-1 Location: (required) Delia City Name: (optional) Telephone #: (optional)		
SUBJECT: ¹⁰ Vehicles with ham antennas				
REFERENCE: (e.g., Number of earlier msg.): ¹¹				
Message: ¹² (what, when, where needed; how long; contact name and phone number) KEEP MSG BRIEF				
License plates of vehicles with ham antennas: 52XV229 7AXV061 5WP277 7WS221 SG0858				
ACTION TAKEN: ¹³ (For use by Originator / Recipient) USE SEPARATE MESSAGE FORM IF SENDING REPLY				
CC: <input type="checkbox"/> Management <input type="checkbox"/> Operations <input type="checkbox"/> Planning <input type="checkbox"/> Logistics <input type="checkbox"/> Finance				
Operator Use Only: ¹⁴				
How Received <input type="checkbox"/> or Sent <input type="checkbox"/> (one)		Operator Call Sign: [REDACTED]		
<input type="checkbox"/> Telephone <input type="checkbox"/> Dispatch Center		Operator Name: [REDACTED]		
<input type="checkbox"/> EOC Radio <input type="checkbox"/> FAX <input type="checkbox"/> Courier		Date: 4/18/15 Time: 1156		
<input checked="" type="checkbox"/> Amateur Radio <input type="checkbox"/> Other				
Outgoing (Send): ¹⁵				
Message Originator: Send the top copy (white) to radio, yellow to PLANNING, retain the pink copy for your reference.				
Radio: After sending, complete Disposition info., retain white copy for file in Radio.				
Incoming (Receive): ¹⁶				
Radio: After receiving, complete Disposition info., route the top copy (white) to the Addressee, yellow to PLANNING, retain pink for file in Radio.				
Addressee: Take appropriate action.				
SCCo ICS Form 213 6/28/2007				

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MESSAGE FORM		When Receiving Msg. Sender's msg. #	Msg. #	When Sending Msg. Receiver's msg. #
Date: 04/18/15			R13-3	
Time: [REDACTED]		Situation Severity (one)		Msg. Handling Order (one)
<input type="checkbox"/> EMERGENCY (e.g. Life Threat) <input type="checkbox"/> URGENT (e.g. Property Threat) <input checked="" type="checkbox"/> OTHER (All others)		<input type="checkbox"/> IMMEDIATE (As Soon as Possible) <input type="checkbox"/> PRIORITY (Less Than One Hour) <input checked="" type="checkbox"/> ROUTINE (More Than One Hour)		Message Requests You To: <input type="checkbox"/> TAKE ACTION (one) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> REPLY (one) <input checked="" type="checkbox"/> Yes, by <input type="checkbox"/> No <input checked="" type="checkbox"/> FOR YOUR INFO. (no action required)
To: ICS Position: (required) Logistics Location: (required) Delia City Name: (optional) Telephone #: (optional)		From: ICS Position: (required) R13-1 Location: (required) Delia City Name: (optional) Telephone #: (optional)		
SUBJECT: ¹⁰ HALL AT Parameres				
REFERENCE: (e.g., Number of earlier msg.): ¹¹				
Message: ¹² (what, when, where needed; how long; contact name and phone number) KEEP MSG BRIEF				
ACTION TAKEN: ¹³ (For use by Originator / Recipient) USE SEPARATE MESSAGE FORM IF SENDING REPLY				
CC: <input type="checkbox"/> Management <input type="checkbox"/> Operations <input type="checkbox"/> Planning <input type="checkbox"/> Logistics <input type="checkbox"/> Finance				
Operator Use Only: ¹⁴				
How Received <input type="checkbox"/> or Sent <input type="checkbox"/> (one)		Operator Call Sign:		
<input type="checkbox"/> Telephone <input type="checkbox"/> Dispatch Center		Operator Name:		
<input type="checkbox"/> EOC Radio <input type="checkbox"/> FAX <input type="checkbox"/> Courier		Date:		
<input type="checkbox"/> Amateur Radio <input type="checkbox"/> Other		Time:		

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ICS 309 – Communications Log

- Our version: ICS 309-SCCo
- Net Control Operators and stations with high message traffic
- Columns help organize key message tracking info
- Does not replace 214
 - EVERYONE fills out a 214
- Turn in to supervisor at end of shift
- Instructions on back

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Exercise: ICS-309 Communications Log

COMM Log ICS 309-SCCo ARES/RACES		1. Incident Name and Activation Number <i>Training Class Exercise</i> <i>XND-14-TCE</i>		2. Operational Period (Date/Time) <i>12/13/2014 12/13/2014</i> From: <i>1100</i> To: <i>1400</i>	
3. Radio Net Name (for NCOs) or Position/Tactical Call <i>Xanadu Tactical Net</i>				4. Radio Operator (Name, Call Sign) <i>Your name, your FCC call sign</i>	
5. COMMUNICATIONS LOG					
Time (24:00)	FROM		TO		Message
	Call Sign/ID	Msg #	Call Sign/ID	Msg #	
1145	----	---	----	---	Start Net
	----	---	----	---	Net Control = Your Name, <your call sign>
	----	---	----	---	Scribe = Herman Munster, W6XLR4
1155	<i>Shelter 2</i>	<i>S2-013</i>	<i>EOC</i>	<i>XND-106</i>	<i>Bed count</i>
1210	<i>KJ6HAM</i>				<i>check-in – assigned tactical = Shelter 1</i>
1220	<i>KB6HAM</i>				<i>check-in – assigned tactical = Shelter 3</i>
1250	<i>EOC</i>	<i>XND-107</i>	<i>Shelter 3</i>	<i>S3-1004</i>	<i>Inventory checklist</i>
1305	<i>Shelter 1</i>	<i>S1-021</i>	<i>EOC</i>	<i>XND-108</i>	<i>Supply status</i>
1310		<i>XND-109</i>	<i>All Shelters</i>		<i>Exercise complete --- Confirmation #s follow</i>
1311		"	<i>Shelter 1</i>	<i>S1-022</i>	
1312		"	<i>Shelter 2</i>	<i>S2-014</i>	
1313		"	<i>Shelter 3</i>	<i>S3-1005</i>	
1330	----	---	----	---	Net closed

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COMM Log
ICS 309-SCCO
ARES/RACES

1. Incident Name and Activation Number
MSC-15-117
Los Altos Festival of Lights Parade

2. Operational Period (Date/Time)
11/21/15
From: 161500 To: 2220

3. Radio Net Name (for NCOs) or Position/Tactical Call
Tactical Net

4. Radio Operator (Name, Call Sign)

5. COMMUNICATIONS LOG

Time (24:00)	FROM		TO		Message
	Call Sign/ID	Msg #	Call Sign/ID	Msg #	
1620	KCOT				KCOT TALKER SET on Net
1621	K36WBF				received
1629	KCOT				KCOT back on Net & AFEI
1633	K36DPX				Received
1635	IC				It goes to quiet
1636			All stations		Shadow net open
1649	staging				check on white Subura
1653	AEL#0				Route of
1654	IC				back on freq
1656	K36BIB				Route of
1657	K36WBF				request
1657	IC				checkpoint &
					SCPBSS & ETMS52
					cars about to be towed
1659			All stations		Turn on message window
1654	IC				7405204
1657			All stations		
1701	CPID				announced shadow net
1701	IC				in position
1702			All stations		SCPBSS is having vehicle
					net control change
1703	MWV				is route
1704	WCM1				accept on station
1704	WCM2				is on 3
1705	RS				on station
1706	RS				signal clear
1706	CH				on station
1707	K36VWB				is clear
1708	K36VWB				
1709	RS				on station
1709	RS				on station

6. Prepared By (Name, Call Sign)

7. Date & Time Prepared

8. Page 52 of

ICS 309-SCCO ARES/RACES (rev. 2014-Dec-18)

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NC Change Logged

COMM Log
ICS 309-SCCO
ARES/RACES

1. Incident Name and Activation Number
MSC-15-117

2. Operational Period (Date/Time)
11/21/15
From: 1500 To: 2000

3. Radio Net Name (for NCOs) or Position/Tactical Call
Shadow Net

4. Radio Operator (Name, Call Sign)

5. COMMUNICATIONS LOG

Time (24:00)	FROM		TO		Message
	Call Sign/ID	Msg #	Call Sign/ID	Msg #	
1709	Nancy		Terry		slow going to costumeing
1910	Nancy				with p3:burce
1911	Vony				with photographers
1912	Ed				Santa at CP9
1920-1913			All stations		Santa at CP9
1913	Nancy		Michelle		egestion from daughter
1916	MIC ovne				check out - will do resource
1917			all stations		Santa at CP9
					Shift Change
1914	Michi's mom				Michelle find someone
1916	Josephine				she left about 25 minutes
1920	Arlene				she has arrived
1921	Ken's				Michelle - get from Ken's
1921	Ken's		Nancy's		may leave? yes
1922	Nancy/Michelle		Michelle/Nancy		may leave?
1922	John Denny		Ken		yes, may leave
1922	Ed		Nancy		may leave? yes
1923	Deborah		Nancy		may leave? no
	Ken		all		agree not return
					my son, Terry
					due to go with returned by phone
1925	Nancy				has been released
1927			Terry		still on net? yes
1927			Terry		still on net? yes
1928	Ed				check out
1928	Jon				released checkpoint
1929	Deborah				at staging, checking out
1919	Michelle				checking out
1931			Sami		No answer
1933	Terry				released
1935	Angie Sage		Sami's kids		checked out
1935	Jon				checking out
1937			Ken		no answer

6. Prepared By (Name, Call Sign)

7. Date & Time Prepared
11/21/15 1440

8. Page 4 of 5

ICS 309-SCCO ARES/RACES (rev. 2014-Dec-18)

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COMM Log ICS 300-SCCo ARES/RACES		1. Incident Name and Address Number <i>XSC - ABOVE D/MS Drill</i>		2. Operational Period (Date/Time) From: 1200 To: [redacted]	
3. Radio Net Name (or AOC) or Position/Technical Call <i>Msg Net</i>		4. [redacted]			
5. COMMUNICATIONS LOG					
Time (24-Hr)	FROM Call Sign/D	TO Call Sign/D	Msg #	Message	
1522	Capitane			I continue	
1522	San Jose			I continue	
1524	San Jose			sent to Alt msg net	
1524	Capitane	XSC 447		Contact	
1524	San Jose	XSC 448		Arrival list	
1522	Alto	XSC 506		Contact list	
1539	Alt			check out of net	
1540		Capitane		Roll call	
1540		Alto		Roll call	
1540		Alt View		not heard	
1540		San Jose		not heard	
1540		San Jose		changed IC	
1547	San Jose	XSC 507		contact list	
1550		San Jose		Roll call	
1550		San Jose		Roll call	
1557	San Jose	XSC 508		Today's Activities	
1555	Capitane			check out	
1556	Alto			check out	
1557	San Jose			check out	
1558	Alt View			check out	
1600		All radios		closing net	
1601	San Jose			check out	
1601	San Jose			check out	
6. Prepared By (Name, Call Sign)		7. Date & Time Prepared		Page 2 of 2	
[redacted]		12/15			

ICS 300-SCCo ARES/RACES (rev. 2014 06-18)

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Most Common Errors on Forms

**ICS-214
Unit Log**

Missing Detail

**ICS-213
Message Form**

Legible hand writing



**ICS-309
Communications Log**

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END FORMS REVIEW


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Mesh / Wi-Fi

2015 Year End Summary



Santa Clara County ARES®/RACES

Revised: 07-Dec-2015

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Mesh / Wi-Fi Review

- March 2015 – Mesh / Wi-Fi Workshop with 33 participants
- Discussed
 - IP Networking basics
 - Discussed hardware available to use
 - VOIP phones
 - Power over Ethernet (POE)
 - Frequencies
 - Part 15 vs Part 97 considerations
 - Hands-on exercises



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Mesh / Wi-Fi Review

- County Wide Drill - April
 - One aspect of the exercise provided hands-on use of a Mesh Network
- Milpitas BBQ Festival - May
 - 3 Ticket Booths with Mesh nodes, VOIP phones, and cameras
 - Command post with Asterisk PBX, VOIP Phones, video display
- Sunnyvale
 - Workshop: May and July - 8 plus nodes, VOIP phones, Asterisk PBX
 - Field Day: June - 4 nodes with cameras and VOIP phones
 - SNAP Graduation: October - 2 nodes with phones, voicemail, 1 camera
 - Joint workshop with Cupertino: August

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Mesh / Wi-Fi Review

- Cupertino SCC Sheriff's Heroes 5K Run - November
 - 6 locations
 - Mesh nodes, VOIP phones, cameras, Asterisk PBX
- A Mesh / Wi-Fi workshop is scheduled for June 2016

Additional information: www.scc-ares-races.org/mesh/

SCC Mesh User Group: groups.yahoo.com/group/scc-mesh

END MESH/WI-FI REVIEW



Training Plans 2016

2015 Year End Summary



Santa Clara County ARES®/RACES

Revised: 06-Dec-2015

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Training Plans For 2016

- Intro and Fundamentals Class offered 3 times each year
 - Maintain reasonable class size
 - Location – 2 in Mtn. View and 1 in Sunnyvale
- Field Ops reduced to one class rather than two
 - Fundamentals Class is now a prerequisite
 - Much of the material from Fundamentals was duplicated in this class
- Planning class to be rewritten
 - More realistic examples and exercises
- Discussion about a Leadership Course/Workshop for ECs/AECs
 - Your ideas welcome

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END TRAINING UPDATES

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Thank You!

We look forward to seeing you
again next year:

Classes, drills, events, ...

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