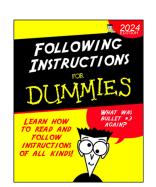
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# Housekeeping

- Introductions
- · Pen/pencil & paper
- · Cell phones on silent or vibrate
- Side conversations
- Questions
- Refreshments
- Breaks
- Restrooms
- In case of emergency
- · No wandering around the building







# **Net Control Type III**

# Class Presentation for Part A



Santa Clara County ARES®/RACES

Last Updated: 25-February-2024

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Remember This?



Lots of talking ... NO Communication!

# Our Goal(s) as Operators:

- Minimize:
  - Number of words said
  - Time spent on the air
  - Repetition
- Maximize:
  - Accuracy
  - Information throughput
  - Efficiency
- Example: If this were an SCCo ARES/RACES exchange:
  - Abbott: Who is on First, What is on Second, I Don't Know is on Third
  - Costello: Roger
  - Abbott might have used the "I Spell" ProWord for proper names

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# Practice!!!

Hint: Being an NCO in the County EOC radio room for a Quarterly SCC drill is an excellent opportunity.

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# What does it take to be a great Net Control Operator?

- You need to be a great communicator,
  - com·mu·ni·cate: to transmit information, thought, or feeling so that it is satisfactorily received or understood
- · That is able to communicate precisely,
  - pre-cise-ly: 1. in a precise manner 2. exactly
- Following a shared, standard procedure, that EVERYONE is trained to use!
- What else?

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# **Learning Objectives**



At the end of this class, you should be able to:

- Describe the Net Control Type III credential (qualification)
- Describe the purpose and usage of each of the main Santa Clara County nets
- · Describe the key attributes of a net control operator
- · Perform proper record keeping and logging
- Create your own pre-operation checklist
- Properly start up a net
- Properly collect damage reports
- Properly hand off damage report summaries
- Describe general procedures to properly run a net

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#### Agenda: Net Control Classes

#### Net Control Type III, Part A

- · Net Control III credential
- Santa Clara County Nets
- · NCO Attributes and techniques
- · Record keeping and logging
- Starting a Net
- Handling damage reports
- · Operating a Net

#### Net Control Type III, Part B

- · Dealing with challenges
- · Working with a scribe
- · Resource Tracking
- · Resource Net for an Event
- · Handing off a Net
- · Closing a Net

**Net Control Type II:** Advanced techniques, such as faster, higher efficiency operations, equipment for net controls, county Message Net operations, county EOC operations, and working two nets at once

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# Thank you for working towards a Type III credential!!

- Obtaining any Type III credential (F3, N3, P3, S3) is a nice step
  - You have gone through at least one evaluation consideration process
  - You are an Independent Operator
  - You have demonstrated your capability and performance for the resource type based on SCCo RACES program standards
  - SCCo and you have confidence that you can provide dependable and reliable communication services to a <u>served agency</u> in benefit to the public for real and public service events.

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Net Control Type III Credential



- · Capabilities and services offered
  - Fully independent operator
  - Capable of basic net control assignments without assistance or coaching
  - Net control operator for low to medium traffic nets
  - Scribe for low to medium traffic nets
  - Equipment: SCCo Go Kit (includes HT, batteries, coax/pwr adapters)
  - Ambassador to the public for SCCo ham radio emergency communications
- Typical Assignments
  - Resource Net Level 1, immediately after incident
  - Resource net for smaller drills and public service events
  - Small to medium city and tactical nets
  - County Command Net NCO
  - Small staging area net control
  - Drills and public service events

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# It doesn't stop with this training or with earning a credential

- Please practice when you can on your own, drills, exercises, practices, etc.
- Please keep your go-kit updated (everything working, batteries charged, etc.)
   Verify preparation and that everything is working before arriving at your assignment
- You are responsible for staying current with SCCo documentation (frequency lists, docs, training material, forms, etc.) Changes announced on Groups.io Announce List
- Keep your profile contact information up-to-date (i.e., phone and email) you must be reachable
- Please print your wallet card before it expires (Jan 31<sup>st</sup>). Print it again after you obtain any new credential or endorsement
- Consider setting up periodic (e.g., 30-day and/or 90-day) preparation readiness and practice checklists

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# Our Example Operator: Herman Munster

- "The Munsters" was a TV show in the mid-1960s
- Herman was the father, played by Fred Gwynne



• Herman was an amateur radio operator ...



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# How Are ARES/RACES Nets Different?

Characteristics	Typical Ham Nets	ARES/RACES Nets
Content / Topic	General; whatever we want	Specific; whatever the served agency wants
Order	Round-robin	By message priority
Speak	When it's your turn	Only when necessary
Say	As much as you want	As little as possible
Tone	Friendly (usually!)	Professional
Use	Q-codes: "QSL, QRT," "73", "88", Abbreviations: OM, YL, DX phonetics: Norway, Mexico	Plain English Pre-defined prowords ITU phonetics Shared procedures.
Speed / length	As long as it takes	As brief / quick as possible
Documentation	None	Everything (check-ins, messages, acknowledgements, check-outs, other)

The Net Control Operator

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**Net Name** 

Message Net

Command Net

EOC-to-EOC Net HF Net Other voice nets?

Hospital Net



Santa Clara County Voice Net Review

Resource Net Level 1 - Information Gathering

Resource Net Level 2 - City Check-Ins/referral

Resource Net Level 3 - Coord of Mutual Aid

Questions about each net

Open or directed?

When and who starts?

How busy expected to be?

Operator level expected?

Who are the participants?

Type of message traffic?

**KEY PERSONAL ATTRIBUTES** 

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#### The Net Control Operator



- The most essential part of any emergency net is the attitude and skill of the net control operator (NCO)
- The NCO coordinates all net activity and shapes the efficiency (or inefficiency) of the net operation
- The NCO sets the standard for all others on the net
  - Other operators will pattern their behavior after the NCO
  - Be a great Message Passer
- · Who becomes the NCO?
  - The role may be assigned in advance; e.g. by Unit Leader / Supervisor
  - For spontaneous incidents, often the first station on the air
  - The role may be handed off from one station to another

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#### Personal and Mental Fitness

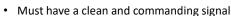


- Can handle physical and mental stress for long periods
  - Physical and mental fitness are essential
  - Self manages stress and fatigue takes breaks as needed
- Can listen and respond in a noisy/chaotic environment
  - Net in one ear, EOC discussions in the other
  - Different net in each ear (stereo headphones, one ear per VFO)
  - Frequent interruptions, distractions
- Must have a clear voice and good hearing
  - Speak clearly, enunciate properly, ...
  - Copy message traffic in difficult or noisy situations
  - Copy call signs quickly and accurately
- Attention to detail is critical

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...

Station Quality & Preparation



- Antenna height & gain, RF power, audio quality
- · Must have reliable power
  - AC, battery, generator/solar, station grounding, emergency lighting, fuses
- Properly equipped
  - Radio manuals!
  - Headset (stereo), footswitch, forms, maps, procedures, frequency lists, telephone numbers, notepads, pens, ...
- Prior planning and configuration
  - Radio memories, modes, menus, configurations, cabling, labels
- Solid radio operations knowledge
  - Frequency changes, multiple frequencies, duplex/simplex/tones

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# Operating Technique: Verbal Communications

- · Maintain a clear speaking voice
- Control tone of voice, even under stress
- Have a good command of the English language
- Use plain English, no 10-codes, no Q-codes, etc.
- · Know message passing Prowords and procedures by heart
- Know your net before you start
  - Stick to the prepared scripts for the net
  - Stick to the business of the net
- Important: be clear and concise when giving instructions !!!
  - E.g. Mike-Mike report instructions
- During a drill, appropriately identifies "This is drill traffic".
- ID frequently and remind others to do the same

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# **Operating Technique:** Radio Technique

- · Make only necessary transmissions
- · Use procedures and techniques to reduce number of transmissions
- Press PTT, then pause before speaking; allow repeater to key up
  - If repeaters are linked, leaves longer pause, advises others on pauses
- Use a minimum of words to convey an informal message; proper prowords
  - Be a "FAX machine" for 3<sup>rd</sup> party messages and forms
- Drop PTT when not speaking; avoid open mic or dead air
- Remind operators to close with their FCC call-sign, as needed
- Train yourself to allow sufficient gaps between transmissions !!!
  - For other stations to break in with other or higher priority traffic
  - For other stations that may have problems reaching the repeater
    - . E.g., checking in or out of the resource tracking net
  - For primary users to use the resource

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# Stay Current, Stay Informed

- · Visit the County web site often
- Check the Announcement space
- · Check the Operations page
  - Contact Info, Forms, Frequency Lists, Go Kit Lists, Standards and Procedures, ... and more
- Read the whole page
- · Check Training and Events
- Check for updates (often)
- Take personal responsibility for keeping yourself, your equipment, and your Contact Information up to date
  - Current phone number(s); needed for resource tracking and AlertSCC
  - Make a habit (calendar event) to check the beginning of each year.



http://www.scc-ares-races.org

# **Develop & Maintain Proficiency**

- Being a high-quality operator isn't hard, but it takes practice
- Developing and maintaining proficiency is a personal responsibility
- · Recommended activities:
  - Practice logging on any/all nets you listen to
    - Be ready to fill in if Net Control needs a break, has equipment failure, ...
  - Message Passing Class is essential for voice Net NCOs
  - And Practice, Practice (procedures and Prowords):
    - · Weekly SPECS, SVECS and City Nets
    - · Quarterly drills; public service events
    - · County-wide Communications Drills
  - Work on additional credential levels
    - · The experience you gain makes you a better operator

# Summary: what else does it take to be a great Net Control Operator? (Hint: another "p" word)

- Patience
  - · With yourself
  - · With your equipment & your preparation
  - · With those around you
  - · With any "course correction" advice received from the Net Manager
  - · With the other operators on the net
  - · With knowing what you are going to say before pushing PTT (includes prowords)
  - · With speaking after pushing PTT on a linked repeater system -- pause
  - · With pushing PTT after someone else's transmission ends
    - Resource Net → leave longer gaps !!!
- And yes, patience also takes practice

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Tracking Activities, Resources and Message Traffic

#### RECORD KEEPING AND LOGGING

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### ICS-214 - Unit Activity Log Review

- 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)
- Shadows only: log message traffic on the 214, no 309 required.
- · Use multiple pages if necessary
- · Instructions on back
  - Recommendation: print two-sided.
- Reminder: signature required
- Self-paced video: <u>scc-ares-races.org/training</u>

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# Logging and Record Keeping Review

- Everyone fills out an ICS-214 Unit Activity Log (ICS 214-SCCo)
  - Start it when you get your assignment (before you leave home)
- Everyone signs in/out on an ICS-211A Communications Checkin (ICS 211-SCCo)
- Everyone except Shadows fills out an ICS-309 Communication Log (ICS 309-SCCo)
  - Does not replace the need to maintain a 214 Unit Activity Log
- Must be legible or its useless!
- Must be complete and accurate
  - Post analysis may need to reconstruct event flow and information
- Hand in your logs, notes, etc., at the end of your shift (including your ICS-214)

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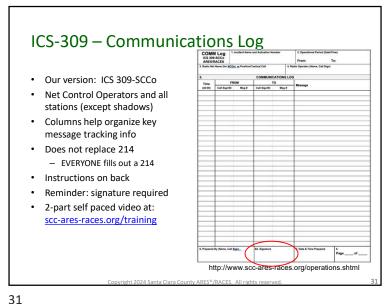
Homework Assignments Review

**NET CONTROL TYPE III** 

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Assignment 1: ICS-214 exercise

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Homework 1: Start an ICS-214 Activity Log UNIT LOG 1. Incident Name and Activation Number Net Control Type 3 Part A class 03/02/2024 03/04/2024 ICS 214-SCCo ARES/RACES XSC-24-1NC From: 0900 To: 1200 3. Unit Name / Tactical Call / Designators 4. Unit Leader (Name, Call Sign, ICS Position) Student<suffix> Your Name, Your FCC Call Sign Personnel Roster Assigned ACTIVITY LOG Time (24:00) Major Activities & Events / Occasional Messages (indicate From / To / Msg# / Msg Text) Departed for Class. SR101 and 85, ODO XXX 08mm Arrived at 700 All America Way, Sunnyvale, ODO XXX 0900 Class started 7. Prepared By (Name, Call Sign, ICS Position) 7A. Signature 8. Date & Time Prepared Your Name, Your FCC Call Sign /Your signature/ 03/02/2024 - 1201

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Assignment 2: ICS-309 review

#### Homework 2: ICS-309 Communications Log

COMM Log 1. Incident Nan			me and Activation	n Number	2. Operational Period (Date/Time)				
ICS 309-SCCo Training			Class Exer	cise	03/02/2024 03/02/2024				
ARES/R	ACES	XND-24-	-1TC		From: <sub>12:30</sub> To: <sub>15:00</sub>				
3. Radio Net	Name (for N	(COs) or Positio	n/Tactical Call		4. Radio Operator (Name, Call Sign)				
Xanadu Tactical Net					Your name, your FCC call sign				
5.			COMMU	JNICATION	S LOG				
Time	F	FROM TO Massage							
(24:00)	Call Sign	/ID Msg#	Call Sign/ID	Msg #	Message				
12:45					Shift Change				
					Net Control = Your Name, <your call="" sign=""></your>				
		- i			Scribe = Herman Munster, W6XLR4				
12:55	Shelter	r 1 S1-113	EOC	XND-206	Bed count				
13:10	KJ6HA	M			check-in – assigned tactical = Shelter 2				
13:20	КВ6НА	М			check-in – assigned tactical = Shelter 3				
13:50	EOC	XND-207	Shelter 3	S3-2004	Inventory checklist				
14:05	Shelter	2 S2-121	EOC	XND-208	Supply status				
14:30		XND-209	All Shelters	3	Exercise complete Confirmation #s follow				
14:31		- "	Shelter 1	S1-122					
14:32		"	Shelter 2	S2-114					
14:33		- "	Shelter 3	S3-2005					
15:00					Net closed				

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#### Other Forms Review

- Message Net
  - ICS 213-SCCo Message Form
  - SCCo OA Jurisdiction Status
  - SCCo OA Shelter Status
  - SCCo EOC-213RR Resource Request Form
  - Allied Health Facility Status
  - RACES Mutual Aid Request
  - Non-standard forms
- Hospital Net
  - Several form types
- · Whatever the form:
  - Proceed in an orderly sequence; follow or create field numbers
  - 5 groups at a time
  - Standard phonetics, numbers, prowords
- Where to review what forms are available:
  - https://www.scc-ares-races.org/operations.shtml

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Homework 2: ICS-309 Communications Log

• Don't forget the bottom of the form!

What about your ICS-214 Activity Log?

3.	ACTIVITY LOG					
Time (24:00)	Major Activities & Events / Occasional Messages (indicate From / To / Msg# / Msg Text)					
	***					
12:45	Took over Tactical Net as NCO – see ICS-309					
15:00	Closed Tactical Net					

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"By failing to prepare you are preparing to fail."
--- Benjamin Franklin

It's all about preparation

HOMEWORK REVIEW
BEFORE STARTING A NET

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#### Preparing to Start a Net – Homework Review

- The degree of preparation depends on the situation
  - Think about the impact of any potential problems and plan accordingly; common sense should prevail
  - In real, county-wide incidents, failure to adequately prepare can result in delays and disruptions to our response
- Four steps
  - 1. Arrive with sufficient time to complete all preparations and briefings
  - 2. Prepare your station
  - 3. Prepare your script (intro, reports/check-ins, update, close)
  - 4. Prepare yourself
- Then Go!

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#### Prepare Your Script Homework Review

- Main county nets have prepared scripts
  - Consult the county manual for each net in county EOC radio room
- SPECS & SVECS also have prepared scripts
  - Consult their websites
- Don't expect prepared scripts. Write up your own and have in your go-kit!
  - Start / Intro
  - Reports / Check-ins
  - Update
  - Close

**Prepare Your Station** Homework Review

- · Prepare your work-space. Be NEAT!!!
  - Pen (blue or black ink) and paper
  - Visible clock (24-hour clock is convenient)
  - Frequency lists, contact numbers/info
  - Forms (Form 1, phone message, ICS 214, ICS 309, ICS 213, ...)
  - Maps (Google Maps "Offline maps", maps.me, etc. ) Note: must be able to navigate "off-Internet" or in Airplane mode.
  - Water/liquids for drinking
  - Place regularly accessed items within easy reach
- Prepare your radio & know how to use it
  - Oriented in a comfortable position
  - Check programmed memories
  - Check all connections, settings especially for shared stations
  - Skim the manual or cheat sheet and keep it handy
  - Perform a radio check

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#### **Basic Templates for Net Control Scripts** Homework Review

- Start / Intro
  - Check for a clear frequency
  - Identify yourself, including the tactical call sign of net control
  - Identify the purpose of the net, and whether it will be operated as open or directed
  - State whether or not you have the ability to dispatch resources.
  - State what to do if immediate help is needed (e.g., call 911 or city tactical)
  - Ask if there is any emergency traffic
  - Ask if there is any traffic for net control
- · Reports/Check-ins
  - Describe how people should make reports or check-in
    - · May include when to use Tactical and FCC call signs
- Update
  - NCO must remember to ID with FCC call sign every 10 minutes
  - Purpose of net and operating mode (directed/open) as appropriate
- - Thank owners and operators of repeater(s) (if used)
  - Announce that the repeater/frequency is returned to normal use

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#### **Net Control Examples**

- Start / Intro
  - Message Net [01]
  - Resource Net Level 1<sub>[02]</sub>
- · Reports/Check-ins
  - Message Net (roll-call) [03]
  - Resource Net Level 1 (Mike-Mike reports) [04]
  - Tactical Net Check-ins (tactical calls) [05]
- Update
  - Message Net [06]
  - Resource Net Level 3 [07]
- Close
  - Message Net [08]

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# Prepare Yourself, and Go!

- Make sure you get a briefing
- Learn/know the procedures, traffic flow of the net
- Prepare your log sheet, note paper
- Don't start until you are ready; never let yourself get "behind"
- When you're ready (and not before then):
  - Take a deep breath; Relax
  - Check that the frequency is clear
  - Key up, breathe, read the introduction

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Assignment 3 Review - Net Start Up Script

Any volunteers in the class willing to read their script?

- · State scenario selected
- · Read your script as you would on the air

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**Endorsement Overview** 

**COUNTY EOC RADIO OPERATOR** 

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#### County EOC Radio Room Endorsement

- Goal: create a team of experienced (and credentialed) Net Control Operators that have a deeper understanding of the county EOC Radio Room
  - Radio Room Position Binder contents
  - Primary and ALT Radio Room Layout: positions, equipment, forms, etc.
  - EOC activation procedures
- Course description: <u>SCCo Radio Room Orientation training</u>
  - Perquisites:
    - Net Control Type III or Packet Operator Type III Credential
    - Mutual Aid Communicator Endorsement
    - · Registered as a County DSW
- · Prerequisite training courses
  - SCCo EOC Orientation (County OEM video training)
  - ICS-800: Intro to National Response Framework

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County EOC Radio Room Position Binder Overview

#### **INTRODUCING CHECKLISTS**

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**Endorsement Requirements** 

SCCO RACES Endorsement Record

County EOC Radio Operator

Name:

Call Sign:

Jurisdiction:

All activities must be performed according to the Performance Standards. For specifics of each of these requirements, consult the Credentialing Program Handbook.

Program Manager		ger	Endorsement Requirements				
Date	Call Sign	Initials	Endorsement Requirements				
	1		Credentials				
			SCCo RACES Type III Net Control (N3) or Packet Operator (P3)				
			Endorsements SCCo RACES Mutual Aid Communicator (MAC)				
			Administrative				
			Recommendation from SCCo RACES Chief Radio Officer				
			Registered as County Disaster Service Worker (DSW)				
			Training				
			Santa Clara County ARES/RACES Training				
			SCCo EOC Radio Room Orientation				
			Emergency Management Training				
			SCCo EOC Orientation (County OEM)				
			IS-800: Intro to National Response Framework				
			Mentored Experience at County EOC Radio Room				
			Min 1: Net Ctrl or Packet Op at approved exercise, event, or incident Must be completed after the EOC Radio Room Orientation class and with use of Position Binder discussed during class.				

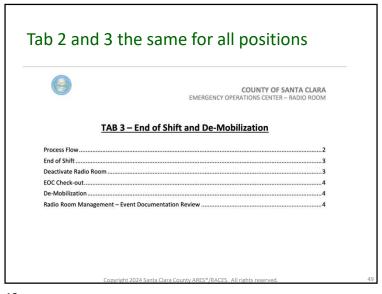
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Tab 2 and 3 the same for all positions

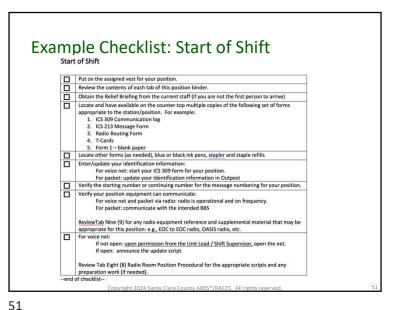
COUNTY OF SANTA CLARA EMERGENCY OPERATIONS CENTER – RADIO ROOM

#### TAB 2 - Activation and Operation

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Tab 8 has position specific procedures For Message Net – all the scripts for operating based on activation type and resources used COUNTY OF SANTA CLARA EMERGENCY OPERATIONS CENTER - RADIO ROOM TAB 8 - Position Procedural - Message Net Emergency Activation ("Normal") Start Script..... Emergency Activation ("Normal") Update Script ..... Exercise Activation Update script using W6TI .......5 Exercise Activation Update script using K6FB......6 Roll Call / Health & Welfare Script..... Closing Script .....



# Self Alerting Incident

- · You feel an earthquake, flooding or a fire ...
- · What do you do first?
  - Ensure your personal safety
  - Ensure the safety of your family
- Follow your city's procedures for the type of event
- When able: tune to Resource Net (146.115 + 100.0 Hz):
  - If you can't reach this repeater, use either the North or South repeater
  - Be aware that the Resource Net repeaters may not be fully linked at the start
  - Note: individual cities may first gather initial reports on city tactical frequencies and then report totals to Resource Net.
- Prepare your station, your script and yourself
- · Check for an active net
  - calling from {city, County EOC, etc.}; is there an active net on "This is \_ this repeater at this time?"
- If a net doesn't exist, start one!

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#### **How To Manage Damage Reports**

- Net Control will identify how reports should be made
  - Defines report format
    - · Example: "Make reports in the following format ..."
  - Usually requests reports of worst conditions first
    - Example: "I will now take the first five reports of Mike-Mike 7 or higher"
  - May request responses from specific cities if not heard from yet
- Typical damage report from field resource:
  - Say: Call sign, city, report, call sign
  - Earthquake: "W6XRL4, Xanadu, Mike-Mike 4, W6XRL4"
  - Flood level: "W6XRL4, Xanadu, figure 2 feet, W6XRL4"
  - Telecom: "W6XRL4, Xanadu, No cell or landline, W6XRL4"
- Net Control maintains tally as reports come in
  - Ready to summarize or hand-off at any time

Resource Net – Level 1

• Resource Net – Level 1 = information gathering

- ... from our resources (i.e., you!)

Purpose:

- Gather preliminary summary of conditions across the county

Provide information to the county Office of Emergency Management (OEM)

· A key Net Control duty will be summarizing the info in a useful format

Methods:

Earthquake damage: "Mike-Mike" reports

- Flood level: water height reports

- Telephone outage: dial tone/no dial tone

· Note: Damage reports are not check-ins

- No one expects those making the report to stay on the net

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# What is "Mike-Mike"? Why do we use it?

- · Scenario: You are the emergency manager for the county
- Given this information:
- Would you activate the EOC or not?
- The Modified Mercalli ("Mike-Mike") scale attempts to:
  - Eliminate subjective descriptions such as "moderate" or "heavy"
  - Quantify the damage based on commonly observable events
    - "Pictures move" vs. "buildings collapse"
  - Assigns a number for quick transmission, easy summarization

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#### The Mike-Mike Scale

- Modified Mercalli ("Mike-Mike") scale
  - Mike-Mike 1 Not felt at all
  - Mike-Mike 2 Felt by persons at rest, on upper floors
  - Mike-Mike 3 Felt indoors; hanging objects swing
  - Mike-Mike 4 Windows, dishes rattle; like heavy truck passing or jolt
  - Mike-Mike 5 Pictures move, doors swing, small items on floor
  - Mike-Mike 6 Glassware broken, books off shelf, floor lamps topple
  - Mike-Mike 7 Furniture broken, cannot stand, chimneys fall
  - Mike-Mike 8 Buildings collapse
  - ... scale actually goes higher, but we count MM8+ as one group
- Wallet cards available on county web site
  - https://www.scc-ares-races.org/operations.shtml

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### Example - Resource Net Level 1

- A county drill included Resource Net Level 1
- Situation
  - Simulated earthquake
  - Resource Net Level 1 established
  - The net started like this ...



- Critique
  - What techniques were used which made this effective?
  - What improvements could be made?

Self-Alerting Incident – Earthquake **Example Opening Script** 

- "This is <call sign>, Resource Net Control. This net is intended to gather brief damage reports from around the county, I am NOT able to dispatch help for acute situations. If you need immediate help, use 9-1-1 to contact your local emergency response center or try to raise someone on your city tactical frequency.
- "Is there any emergency or priority traffic?
- "I will take reports first by call sign only, five at a time, by severity, using the Mike-Mike scale. When I call you, respond again with your call sign, city, Mike-Mike number, and call sign."
- "I will now take the first five call signs only with Mike-Mike 7 or higher."

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# **Recording Mike-Mike Reports**

CITY	WW-1	WW-5	WW-3	MM-H	MM-5	WW-6	mm-7	MM-8
Campbell	++++-	m	11					
Cupertino			111	++++ 1	1111	11		

- Get worst case reports first, then move down in severity
  - "Are there any reports of Mike Mike 7 or higher?"
  - "How about any reports of Mike Mike 5 or higher?"
- Get responses from each city
  - No response does NOT mean no damage!
  - Use EC list or frequency list in your go kit for list of city names
- Continue until you have a complete picture
  - Even if no heavy damage is reported
  - Knowing (for certain) that damage is minimal is important, too!

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# 

2018 August Arm Chair Drill

· Exercised all three Resource Net levels.



· Takeaway: It is good to practice

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Classroom Exercise: Resource Net Level 1 – Simulated Earthquake

• We will repeat this exercise 2 to 3 times. For each time:

- Net Control:
  - Need 1 volunteer to conduct Resource Net Level 1 for an earthquake
  - Use a pre-printed or hand-made MM summary form
- Everyone else:
  - Initial report use the last digit of your mobile phone number.
  - For a 0, report Mike-Mike 1
  - For a 9, report Mike-Mike 8.

• NOTE: hang on to your notes for the next exercise.

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The same

Resource Net - Level 1

HANDING OFF DAMAGE REPORT SUMMARIES

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# Handing-off Damage Report Summaries

- Resource Net Level 1 is usually started at a remote location
  - Whoever is first on the net, wherever they are at the time
- At some point, net control may be asked to summarize the reports so far or hand off the totals to another net control
- Be prepared to hand off a summary at any time
  - Think about how to summarize your report before you get started
- Mike-Mike Summary Report form can be used to gather reports and summarize them

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# Exercise: Handing-off Damage Summaries

- Need another net control volunteer to receive hand-off of MM summary
- First net control sends summary to second net control

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Handing off Damage Report Summaries

Instructions for transmitting the summary data are on the back

nstructions for transmitting the summary data on this form to another operator:

Sender I have Mike-Mike Summary data to transmit. Say when ready to copy.

Receiver Go Ahead

Sender I have Mike-Mike Summary data to transmit. Say when ready to copy.

Receiver Go Ahead

Sender Go Ahead

Sender Go Ahead

Sender Gupertino figures <MM1-3 total> figures <MM4 total> figures <MM6 total> figures <MM7 total> figures <MM8 total>

Sender Gupertino figures <MM1-3 total> figures <MM8 total> figures <MM6 total> figures <MM7 total> figures <MM8 total>

Sender Gupertino figures <MM1-3 total> figures <MM8 total>

Sender Gupertino figures <MM1-3 total> figures <MM8 total>

Sender Gupertino figures <MM1-3 total> figures <MM8 total>

Sender Gupertino figures <MM8 to

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**General Procedures** 

**OPERATING A NET** 

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# Handling Check-Ins



- · Identifies those that will be joining and staying on the net
- Anyone who checks in is expected to answer when called
- Net control records and keeps track of (health & welfare checks) those who check in until they check out
- Check-in methods vary:
  - Roll-call: pre-defined list of net members
    - · Example: cities on Message Net, ...
  - Individual: Individual identifies with FCC call sign
    - · Example: weekly city nets, resource net, ...
  - Tactical Calls: function/location identifies with tactical & FCC call signs
    - · Example: tactical nets, ...
  - ... whatever meets the need at the time

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# **ID Regularly**



- Lots of stuff to remember to do regularly
  - Announce your tactical call
  - Announce the purpose of the net
  - ID with your FCC call sign every 10 minutes
  - Pause after receiving before transmitting, leave gaps for other stations to break in, or finish with their call sign
- Hint: Put it all together every 10 min
  - "This is <call sign>, net control for the Santa Clara County Resource Net. This is a directed net."
- Make sure all stations are identifying regularly
  - Occasionally someone will forget, so ...
  - "Roger checkpoint 1, I'll turn it back to you for ID"

**Directing Traffic** 



- Enforce net discipline (professionally)
  - "<call sign> go direct and turn it back to me when you are done"
- Direct traffic in an effective manner for all net participants
  - Control tempo and pace
  - Watch for and help less experienced operators
- Prioritize traffic according to precedence
  - Immediate, Priority, Routine, Health and Welfare
- Control traffic flow
  - "All stations standby" or "All stations hold your traffic"
- Give instruction in a way which avoids "doubles"
  - "Station ending with zulu, go ahead"
- Allow non-net-related traffic during breaks in net traffic

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# **Collecting Information**

- Be clear on instructions on how to report
- Using Resource Net Level 1 as a previous example
  - "I will take reports first by call sign only, five at a time, by severity, using the Mike-Mike scale. When I call you, respond again with your call sign, city, Mike-Mike number, and call sign."
  - "When I call you please respond with your <report information> followed by your FCC Call sign". (Do a roll call)
- At public events, information is routinely collected.
  - Example: Los Altos Festival of Lights Parade crowd estimates



# Track/Update Field Resources



- Perform regular health & welfare checks of field stations
  - "We will now do a health and welfare roll call by tactical call sign.
     When called, answer with your tactical call, identify any help or resources you may need, and finish with your FCC call sign"
  - Usually every 30 min or so, depending on situation & traffic volume
    - Example: Resource Net Level 3
- Provide information to field stations regularly
  - Warnings and advisories (weather, road closure, etc.)
  - Event status (first bib number in race, location of parade, etc.)
  - Be sure to indicate "drill traffic" when appropriate.
  - Other announcements received from supervisor
    - · Remember, the media is listening
    - · Unit Leader will coordinate with the Public Information Officer (PIO)

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# Dealing with Stress and Fatigue



- · Don't start until you are ready
- · Control the pace of the net according to your ability
  - Work at your speed
  - If you need to, put the net on hold
- · Take periodic breaks
  - As coordinated with teammates and supervisor
- Maintain proper hydration and nutrition
- Rotate positions/duties with team members
  - Observe → scribe → net control → break → scribe → net control
- Exercise patience and understanding with other operators
  - They are likely fatigued and/or stressed, too
  - They will follow your lead if you show a calm and deliberate approach

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#### **Busy Nets**



- Make sure to leave space regularly
  - Allow all repeaters to drop, plus a few additional seconds
  - If stations are too persistent, you may need to force the space:
    - "All stations: remember to leave space between transmissions."
    - · "Are there any stations with emergency or priority traffic?"
    - "Are there any station that have been unable to reach net control?"
- · When multiple stations standing by, regularly announce list
  - Reduces stress for net members; reassurance that they are in the que
- Maintain calm at all times, help net members to remain calm
  - Other net members will follow the lead of the NCO

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#### **SUMMARY**

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# Summary



You should now be able to:

- Describe the Net Control Type III credential
- Describe the purpose and usage of each of the main Santa Clara County nets
- Describe the key attributes of a net control operator
- Perform proper record keeping and logging
- Properly start up a net
- Properly collect damage reports
- · Properly hand off damage report summaries
- Describe general procedures to properly run a net

# **Final Assignment**

Please complete the On-Line 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.

#### **Practice and Prepare**

- Practice!
  - Log check-ins for any nets you're on
  - Perform net control duties for your city/agency net
  - Sign-up (at least) and perform (if possible) net control duty for the SPECS or SVECS net
    - Alert! Please know message passing and ProWords and use correctly.
  - Practice (particularly net hand-offs) with a friend
  - Attend a drill or exercise
- Prepare for the next class
  - Review any homework listed on the web page for the next class
  - Print out and review any forms used in the next class

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# **Online Class Evaluation**

Log into https://www.scc-ares-races.org/activities/ Click "Submit Class Evaluation" in Events menu

**Events** List Events By Date List Events I Joined Modify an Event List/Print an Event Roster Log Event Participation Submit Class Evaluation

From the "Events Menu" select "Submit Class Evaluation"

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# Thank You!

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

<a href="https://scc-ares-races.groups.io/g/training">https://scc-ares-races.groups.io/g/training</a>

This is a moderated group.

Reminder next Net Control Class: Net Control Type III Part B, Saturday 4/6/24

See: https://www.scc-ares-races.org/activities/events.php
Class presentation with homework will be available approximately one
week before class.

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