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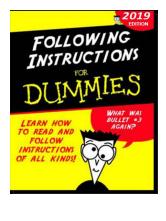


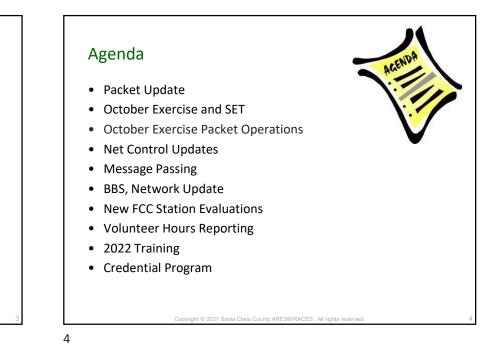
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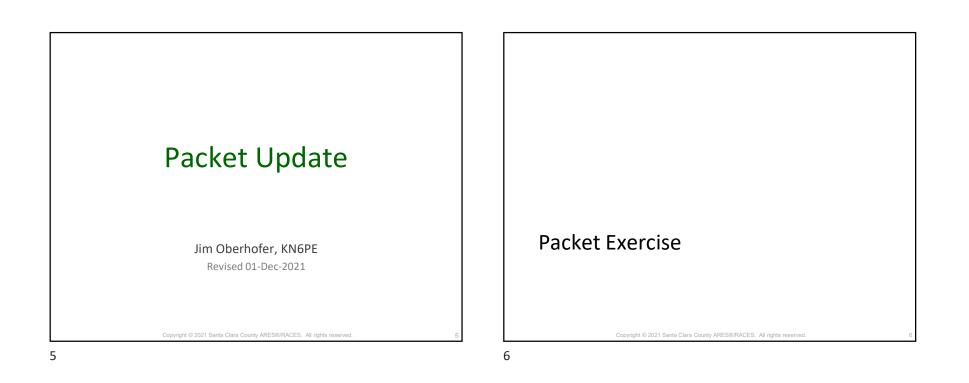
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#### HOUSEKEEPING

- Introductions
- Pen/pencil & paper
- Distractions
  - Cell phone
  - Pets
  - Other household members
- Questions "Raise Hand"
- Breaks
- If we lose Internet connection
- Course Credit







### Weekly Packet "Practice"

#### 2021... by the numbers (7-Dec-2020 thru 30-Nov-2021)

	Monday	Tuesday	'21 ttl	'20 ttl	'19 ttl	'18 ttl
Ttl Practice Messages sent	1365	1861	3226	3138	2844	2116
% Correct all the time	96.8%	96.5%	96.6%	95.5%	93.7%	93.2%
Unique Ave # of Participants/Night	26	35	30	31	29	25.5
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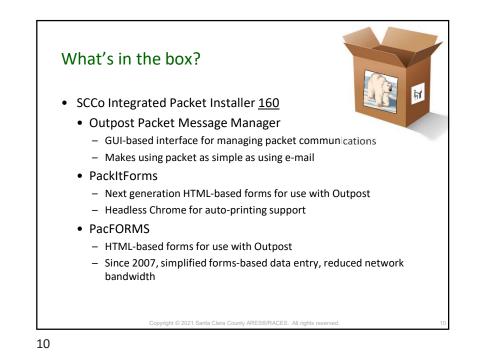
# Weekly Packet "Practice" See the "Standard Packet Check-In/Out Message" App Note under... https://www.scc-ares-races.org/data/packet/index.html#app-notes See the Practice Message, Subject section under... https://www.scc-ares-races.org/data/packet/weekly-packet-practice.html#Message

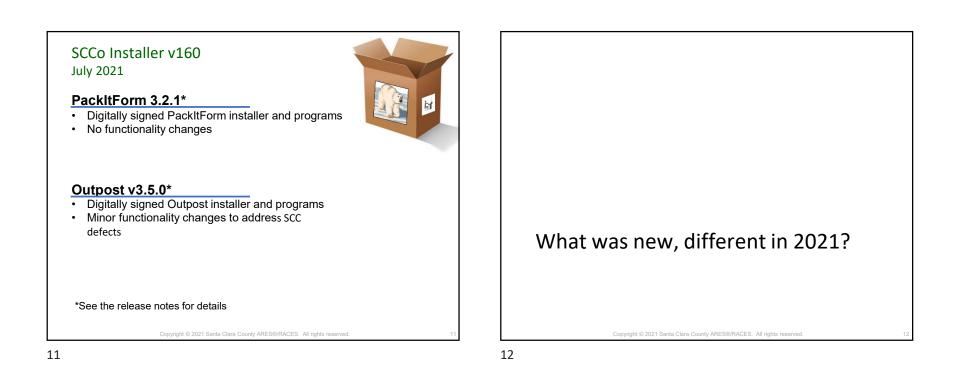
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8



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#### Top 7 packet "what's new" items for 2021

- 7. Packet Training on Zoom
- 6. Windows 11
- 5. Event Documentation
- 4. Check-in, Check-out messages
- 3. Resend Options (and the Subject Line)
- 2. Manual Packet (and the Subject Line)

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1. Packet as a repeatable process



14

13

#### 7. Another year on Zoom Packet training in pajamas

- Ran all the packet classes by zoom
- Zoom registration helped track who actually showed up
- Office Hours offered a chance for troubleshooting, 1-on-1 chats, and general Q&A
- Updated homework assignments
- Completing the homework was prerequisite for class credit
  - Packet IIIA; Outpost and PackItForms 79%
  - Packet IIIB; Applying packet to the Field 94%
  - Packet II; What!? No Outpost? Manual Packet 68%

#### **6.** Windows 11



- Windows 11 was released on October 5, 2021
  - Price: Free upgrade for existing Windows 10 users
  - new desktop look, a major UI redesign, changes to the core Microsoft OS apps and services.
  - Microsoft says Windows 11 was built for gamers.
- But... not every Windows 10 PC is Windows 11 compatible
- The good news: PackItForms and Outpost works fine on W11

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- SCC RACES packet PC recommendation:
  - Laptop or larger netbook running at least Windows 8.1 (end of W8.1 extended support... January 10, 2023)



15

# **5.** Event documentation Its all about the money



- Excerpts from the FEMA | Office of Inspector General report titled "Summary of Key Findings of Fiscal Year 2016 FEMA Disaster Grant and Audits"
- "Over the 7-year period, FYs 2009 to 2015, we found \$1.64 billion, or 15 percent, in questioned costs out of the \$10.9 billion that we audited, which we recommended FEMA disallow as ineligible and unsupported costs."
- "In fiscal year 2016, we found \$155.6 million, or <u>23 percent, in questioned costs</u> out of the \$686 million that we audited, which <u>we recommended FEMA disallow as ineligible and</u> <u>unsupported costs</u>."
- In cases where FEMA payments were made and claims later disallowed, recipients would be required to repay these payments, with audits sometimes taking place years later.
- Because your documentation could be a used as part of the City's justification for either an expense reimbursement or cost recovery request, ensuring the accuracy and completeness of what we submit is critical.

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17



#### What can go wrong... a case in point

- From May 1 through May 2, 2010, Tennessee experienced high winds and flooding which resulted in widespread loss of power.
- The disaster forced residents to vacate their homes and to require food and basic housing.
- The Applicant <u>opened a disaster recovery center</u> and <u>staffed it with</u> <u>volunteers</u>.
- The Applicant requested credit toward the calculation of the non-Federal cost share for volunteer labor, donated equipment, and donated materials.

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 FEMA initially granted Applicant's request for a \$65,416 credit but later de-obligated \$57,714 because <u>volunteer hours were not properly</u> <u>documented</u>.

# Archiving event documentation

- During a Packet Deployment, you will produce the following:
  - 1. ICS 214-SCCo Unit Activity Log
  - 2. ICS 309-SCCo Communications Log (if participating on a voice net)
  - 3. All third party sent & received PackItForms and plain text messages
  - 4. All sent and received operator to operator packet messages
  - 5. ICS 309 Communications Log (packet)
  - 6. Any Form 1 / hand-scribbled / sticky notes, documentation.
- Applies to exercises and real activations
- When your shift is over, your supervisor will tell you what to do, such as:
  - Submitting all documentation (to whom and how)
  - Preparing the packet station for the next use (archiving your shift)

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20

# Event documentation



- The job is not done until the paperwork is complete, archived, and submitted.
  - Every scrap of paper used during an activation is part of the event or incident and goes to the Documentation Unit (or your Supervisor)
    - It must be legible (print)
    - Use one side only
  - These are legal documents that may be needed to defend decisions
  - Most of this documentation is 'discoverable'
  - If it is not in the documentation, then it did not happen
  - Some documentation is specifically created after the event or incident, such as the After Action Report
- And, all this applies to our packet operations

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# Archiving event documentation

# 1. Create the ICS 309 Communication Log

- a) Outpost, Forms > ICS 309 Comm Log.
- b) Select **Period** Tab, then **Range** for when **your shift** (or event) occurred.
- c) Select Output Tab, then which printer

**NOTE:** If you do not have a printer, then select the *Microsoft Print to PDF* printer to produce a .pdf file.

- d) Press Build Data Set, then press Print.
- e) If you paper-print this form, then sign the ICS 309.
- f) Deliver this report to your supervisor.

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21

#### Archiving event documentation Printable Message Listing2.txt - Notepad 2. Create a printable message listing File Edit Format View Help started = a) From Outpost, File > Save All. hous= b) Creates an Ascii-formatted file of all messages in the current folder DEVD=KJ60HT DATM=211120 0849 with a Page Break between each EVNT=BVD21324.102 I/ADDON! . message.

- c) Repeat for any other folder where event messages were stored.
- d) This file could be printed to generate one message per page or cut-n-paste out a specific message.
- e) Deliver this file to your supervisor.

to smell gas outside my house and hthink it e. -- People Trapped: negative\nLast Seen:n/a From: kj6oht@w1xsc.ampr.org

To: CUPEOC; KJ6OHT Sent: 11/20/2021 09:01 Subject: OHT-225P\_R\_Downed Tree KJ6OHT BVD

The earthquake brought down a tree at the end blocking the road. Cars cannot pass. Some neig clear it.

Location: 0 Puddling Stoen Way, Cupertino, cr Pacifica. Reported by: Lou Grant, 21603 La Playa Ct, 40



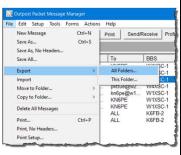
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#### 23

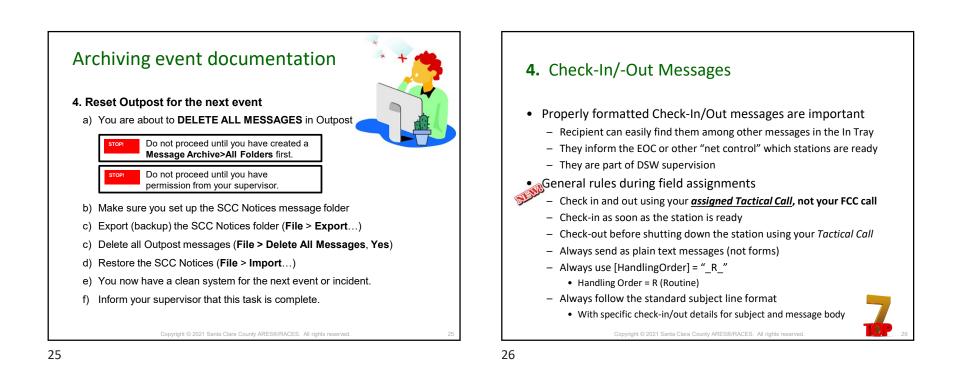
### Archiving event documentation

#### 3. Create a Message Archive

- a) From Outpost, File > Export, then select "All Folders" (for your entire system).
- b) Use meaningful file names.
- c) The Export process will create an Outpost Archive File (.oaf).
- d) This file later can be imported back into Outpost to restore the archived messages to their original folders.
- e) Deliver this file to your supervisor.



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#### Check-In/-Out: Tactical

#### • Tactical Check-In Format:

- Subject: [MsgNbr]\_R\_Check-In [TacticalCallSign], [TacticalName]
- Body: Check-in [TacticalCallSign], [TacticalName]
   Present are:
   [List of FCC call signs and full names, one per line]

#### • Example:

- Subject: SH1-234P\_R\_Check-In XNDSH1, Xanadu Shelter 1
- Body: Check-in XNDSH1, Xanadu Shelter 1 Present are: W6XRL4, Herman Munster
- Check-Out format is the same, except replace "Check-In" with "Check-Out"

<u>https://www.scc-ares-races.org</u> > Data Networking > Packet BBS > Standard Packet Check-In/Out Message

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#### 27

#### Check-In/-Out: Individual

- Unless your local jurisdiction requires it, it is unlikely you will need to use an individual check-in/out. But, if you do...
- Individual Check-In Format:
  - Subject: [MsgNbr]\_R\_Check-In [FCCCallSign], [FullName]
  - Body: Check-in [FCCCallSign], [FullName]
- Example:
  - Subject: XRL-123P\_R\_Check-In W6XRL4, Herman Munster
  - Body: Check-in W6XRL4, Herman Munster
- Check-Out format is the same, except replace "Check-In" with "Check-Out"

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# 3. Message Resend You did what?!!? • You just sent a message, but ... - it was addressed incorrectly, or - it was sent to the wrong BBS, or - you forgot to include all recipients, or - it was incomplete, or - it was the wrong message, or - any number of other problems! And, you don't want to type it all back in! What now?

# Resend Options (and the Subject Line) • Three types of Message Resend 1. Text Message, same Message ID or new Message ID 2. PackItForm Message , same Message ID 3. PackItForm Message , different Message ID Copyright © 2021 Santa Clara County ARES®/RACES. All r

30

#### Resend option – Text Messages Edit Print Reply Reply Close **Resend** a message previously Reply to Al Private Message Forward Bbs: W1XSC sent. Set to Unread From: KN6PE Same Message Resend. • Sent folder, open the message To: KN6PE New Message ID Subject 6PE-17 Add Address • Actions > Resend... choose Change Ro option CUP-280R\_R\_Check-out CUPEOC, Cupertino EOC - Packet Messi File Edit Actions Window Help Popup Menu • Edit the message. Send Print Save Delete Close Urg Pvt • For Resend, Same Msg ID, Private Message manually change the Message ID Bbs: W1XSC-1 from -###<u>P</u> to -###<u>R</u> for <u>R</u>esend. From: CUPEOC Make whatever other changes To... XSCEOC you need to make, then Subject: CUP-280R R Check-out CUPEOC, Cupertino EOC • Press Send, then Send/Receive. Check-out CUPEOC, Cupertino EOC Present are: KN6PE Jim Oberhofer Copyright © 2021 Santa Clara County

31

# Resend option – PackItForm Messages Same Message ID...

Resending *PackItForm Messages* depends on your option.

- Sent folder, **single-click** on the message to highlight it (not open it)
- Actions > Open enhanced msg as text
- Once the text opens, click on Actions > Resend... choose Same Message ID
- PackItForm opens a new copy in the Browser, ready for editing.
- Manually change the Message ID from -###<u>P</u> to -###<u>R</u> for <u>Res</u>end.
- Make other changes and continue as usual.

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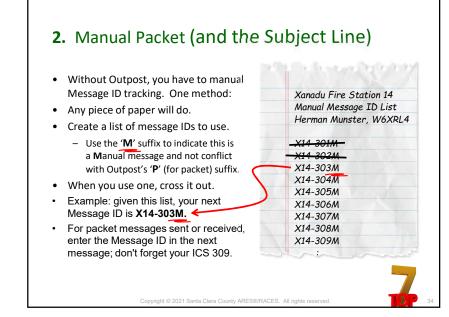
#### Resend option – PackItForm Messages *New Message ID*...

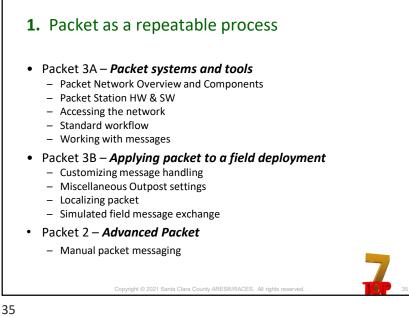
- Get the Next Message Number:
- In Outpost, Tools > Report Settings
   Note the Next Message value. This is the number to use. Do not change it!
- Sent folder, **single-click** on the message to highlight it (not open it)
- Actions > Open enhanced msg as text
- Once the text opens, click on Actions > Resend... choose New Message ID
- The PackItForm will open in the browser.
- Manually change the PackItForm Origin message number with the number you noted above.
- Make other changes and continue as usual.

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33

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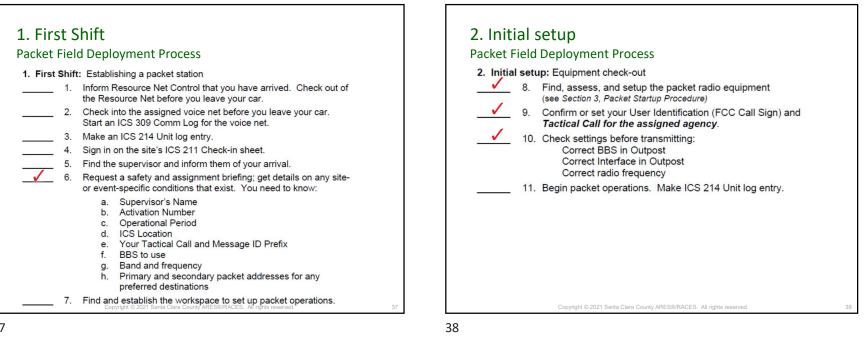


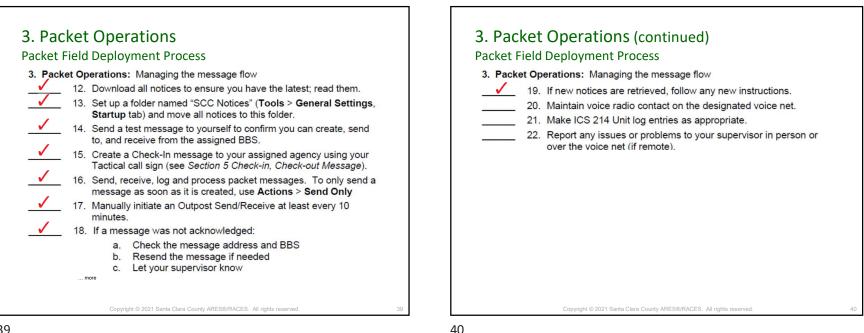
#### Thinking in terms of a Packet Field Deployment

- 1. First Shift... when assigned to start up a station
- 2. Initial station setup... equipment check-out
- 3. Packet Operations... managing the message flow
- 4. Incoming Shift Change... if you are relieving someone else

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- 5. Outgoing Shift Change... if you are being relieved
- 6. Securing Operations... when directed to shut down



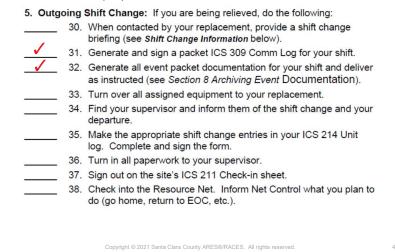


#### 4. Incoming Shift Change Packet Field Deployment Process 4. Incoming Shift Change: If you are relieving someone else, do the following: 23. Inform Resource Net Control that you have arrived. Check out of the Resource Net before you leave your car. 24. Sign in on the local ICS 211 Check-in sheet. 25. Find the supervisor and inform them of your arrival. 26. Request a safety and assignment briefing; get details on any siteor event-specific conditions that exist. 27. Find the person you are relieving and receive a shift change briefing (see Shift Change Information below). 28. Make packet system updates - Station ID, Tactical Call, etc. 29. Make all relevant shift change entries in your ICS 214 Unit log. Copyright © 2021 Santa Clara County ARES®/RACES. All rights

# 5. Outgoing Shift Change

42

#### Packet Field Deployment Process



#### 6. Securing Operations Packet Field Deployment Process

6. Securing Operations: when directed to shut down, do the following: 39. Get permission from your supervisor to shut down.

- 40. Create a text Check-Out message to your assigned agency using your Tactical Call sign (see Section 6 Check-in, Check-out Message).
- 41. Generate and sign a packet ICS 309 Comm Log for your shift.
- 42. Generate all event packet documentation for your shift and deliver as instructed (see Section 8 Archiving Event Documentation).
- 43. Complete and sign your ICS 214 Unit log.
- 44. Shut down and pack up all assigned equipment.
- 45. Turn in all paperwork to your supervisor.
- 46. Sign out on the site's ICS 211 Check-in sheet.
  - \_ 47. Check out of the assigned voice Net and check in with the Resource Net. Inform Net Control what you plan to do or where you will go.
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#### Amateur Packet Radio Field Reference (unofficial)

#### What is it

- Provides a reminder (job aid) for how to perform tasks that need to occur during a packet field deployment.
- Helps ensure task consistency, completeness, and operational alignment with SCCo RACES policies and procedures.

#### What it is not

- the only source of information on which you should rely.
- an official SCCo RACES deliverable.

*(the unofficial)* Amateur Packet Radio Field Reference

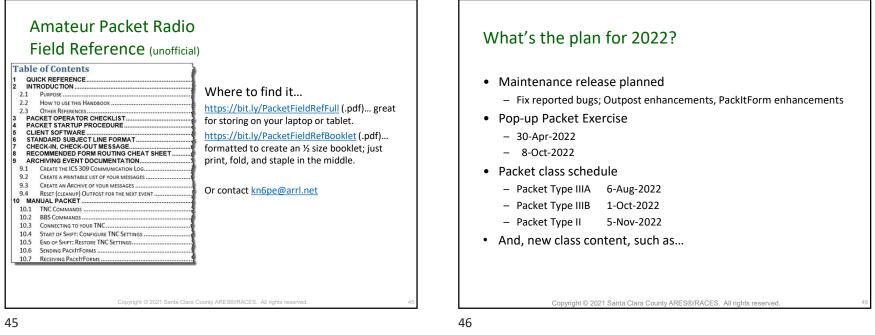
For SCCo RACES Responders

October 2021



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44



# A look at DIY KPC-3 alignment • Ensuring your TNC-Radio is properly set is critical to packet operations. • This includes both Receive Volume and Transmit Level. • The KPC-3x Manuals are good at describing what to do but lack an end to end description of exactly how this is to be done. • Being able to make these settings is critical to Packet field operations. • Watch approx

#### A look at DIY KPC-3 alignment

- Setting the Transmit level you will need:
  - The latest KPC-3x manual for reference.
  - A KPC-3x to calibrate.
  - An HT to receive the transmitted CAL signals.
  - A dummy load (While not required, it is always good not to splatter your calibration tones all over the airwaves).
  - A smartphone app such as Decibel X to display the audio.
- Watch for a details in 2022 on a DIY approach to setting the transmit level.



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.

### For More Information

#### • Support

- See the Santa Clara County ARES/RACES web site packet page
  - <u>https://www.scc-ares-races.org/data/packet/index.html</u>
- Join the packet discussion group
- Practice
  - Send a message during the weekly packet net, either or both days
    - <u>https://www.scc-ares-races.org/data/packet/weekly-packet-practice.html</u>
    - Automated feedback to help you improve, verify you've got it right
  - Participate as a packet operator at drills and other events

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50

49

# Countywide Drill and SET October 09, 2021

Andreas Ott, K6OTT Revised 11-Dec-2021

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# **Drill Summary**

- Deployment Drill Exercise, minimal info was given to participants
- Travel to location and set up, be prepared to operate and conquer the unknowns
- "Dress Rehearsal" before incident deployment
- Same location as 2019 with activities FieldOps, NetControl, PacketOps and Shadowing

# More drill stats

- Day of drill: ~ 250 person hours on ICS-211
- Preparation: estimated ~ 300 person hours
- Post-processing of paperwork and evals: 100 hours
- Ratio of participants to staff is only 3:1

51

# **Drill Feedback**

- Packet messaging throughput outpaced voice about 8:1! Thank you, Mark!
- We will use more Outpost scripting in the future
- Quality of submitted documents is going up
- Timing of shifts and spacing of exercises (MSEL)
- Equipment problems at netcontrol (radio trailer)
- Intermod (frequencies) and fundamental overload (radio hardware quality)
- Evaluations at drills: delays and problems removed required activities, evaluators in double-duty roles

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# Preliminary ARRL SET report 2021

- 42 participants (incl. 1 visitor, 1 remote)
- Of these were 13 new hams, licensed 2017 or later
- 2 message nets, command net, packet + voice net
- 25 voice messages (?), 198 packet messages (!)
- 17 "agencies" EOCs, shelters, rovers, packet
- 12 "jurisdictions" Xanadu plus participating cities
- All stations on emergency power
- At least 723 points total, maybe some more

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Mark Laubach, K6FJC Revised 24-Nov-2021

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# Packet Operations Summary

- 2 shifts, 7 + 5 = 12 simulated shelters
- Automated EOC Outpost Script drove messaging passing Task Groups
- 2 P2 evaluations, 8 P3 evaluations conducted
- 193 messages passed (not including Delivered receipts)
- Time performance overview (in minutes) highly variable:

	11	12	13	14	15	16	17	21	22	23	24	26
Check-In delta from shift start	00:57	01:14	00:43	01:34*	00:28	00:19	01:05	00:43	00:45	00:57	00:37	00:16
Immediate received from Check-in	00:36	00:17	00:49	00:32	00:11	00:26	00:39		00:39	00:29	00:31	
Check-Out delta from Check-in			01:28	00:35*	01:20	01:52	00:57	01:25	01:32	01:42	02:36	01:45
Check-Out delta from shift start			02:11	02:09	01:48	02:11	02:02	02:08	02:17	02:39	03:13	02:01

\* First check-in message was sent at 0:34, but not properly formattee

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55

#### **Packet Operations Future Drill Considerations**

- Increase training/emphasis on pre-event preparation
  - Each participant needs to understand their set-up time for time mgmt
  - Also, hopefully can reduce set-up time
- Expect some "checklist education" on pre-operation readiness
  - What needs to be done before Check-In
- When the exercise follows a "deployment" scenario:
  - Defining a "shift" for packet didn't work out as expected
    - Highly variable set up times
    - Management was not practicing "good" time management
  - Expect an "operational period" to be defined within a Shift
    - Model a served agency's operational period requirements
    - Packet stations must be ready to go with Check-in at the start and will be closed down at the end
    - Each participant will need to plan accordingly lead-time and tear down

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#### Monthly Packet Message Passing Practice

- The Outpost script-driven messaging passing automation worked well during the October exercise
- We are going to trial a monthly packet message passing practice on December 15<sup>th</sup>. Starts at 09:00 on Wednesday the 15th and ends on 17:00 on Wednesday the 22<sup>nd</sup>.
  - Zoom "office hours" on the evening of Wednesday the 22<sup>nd</sup>.
- Participants will need to sign up for the SCC Event
   Those that sign up will be assigned a tactical ID and ICS location
- This first trial will be a modified re-run of the SCCo exercise
- This first trial will be a modified re-run of the SCCO exercis Message passing task group from 9 October
- Intent is to exercise 3<sup>rd</sup> party and operator-to-operator messages following a different scenario each month
  - Keep it interesting and non "cut and paste"

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58

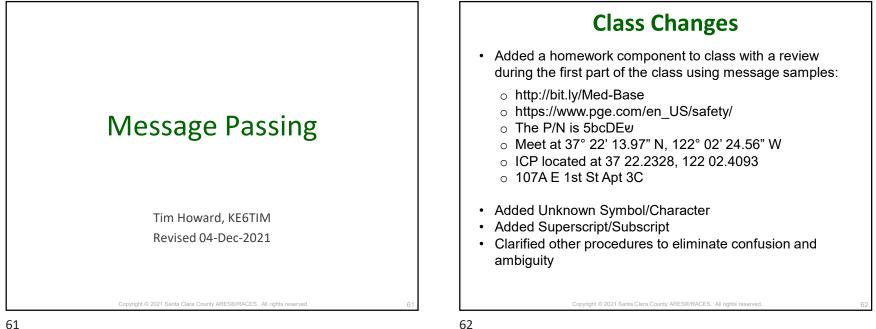


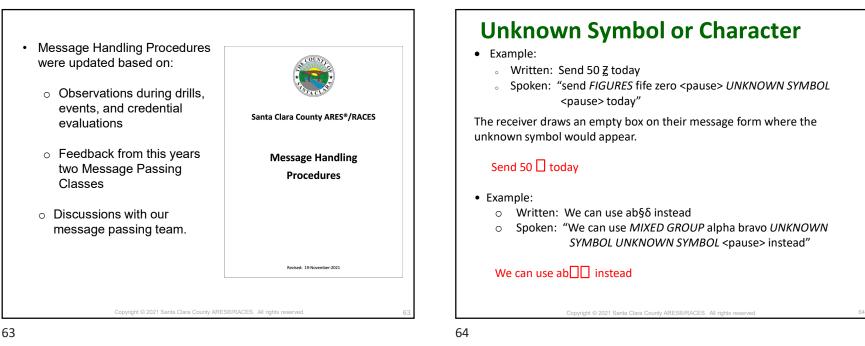
#### Plans for 2022

- Continued emphasis on pre-class homework
  - Expect updated course materials one week before class
  - Homework will likely be moved to a separate handout / presentation
- Type III Part A
  - Add focus on pre-assignment readiness and planning
  - May include a new checklist or two...
- Type III Part B
  - Focus will remain on operating, but some added emphasis on process flow (hint: checklist)
- Type II
  - Rebalance of homework versus class material
  - Will try to develop additional class participation exercise(s)

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60





# SUBSCRIPT and SUPERSCRIPT

- · Used to indicate the following character should be written a half-line lower (SUBSCRIPT) or higher (SUPERSCRIPT) than the rest of the text, such as subscripts and mathematical exponents
- Used with one character at a time
- · Does NOT remain in effect until the end of the group
- Examples:
  - Written: White blood cell count is 10<sup>5</sup>
  - 。 Spoken: "white blood cell count is FIGURES one zero SUPERSCRIPT fife"
  - Written: Model XS4<sub>63</sub>
  - Spoken: "model MIXED GROUP x-ray sierra four SUBSCRIPT six SUBSCRIPT tree"

SUBSCRIPT and SUPERSCRIPT

• When given a chemical symbol to send, if possible, ask the message

• Spoken: hydrogen peroxide (you might use I SPELL here to ensure

author to provide the common English word for the chemical.

If that is not possible, then use the procedure outlined above.

Corrected by message author:  $H_2O_2$  Hydrogen Peroxide

• Written by message author: H<sub>2</sub>O<sub>2</sub>

precise copy

66

# INITIAL(S)

- · Identifies one or more letters to follow
- Used for non-word letter groups
- Voice each letter phonetically
- Leave a pause after the last letter to help separate it from groups
- that follow
- Use for letter groups such as Initials, Abbreviations and Acronyms
- Is immediately followed by white space or a punctuation mark ., :; !?
- These are Initials
  - ARRL
  - o St.
  - o Dr.
  - EOC
  - o CA
  - o T. (As in James T. Kirk)

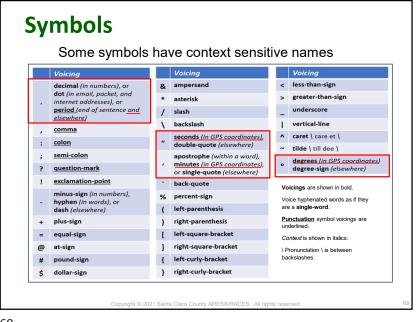
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67

## FIGURE(S)

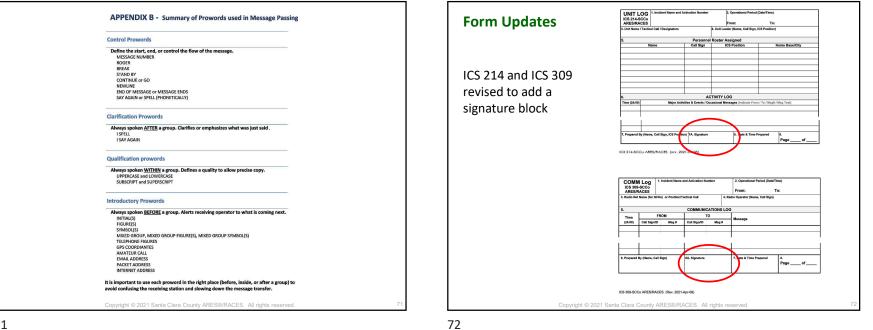
- · Identifies one or more numerals to follow
- Voice each digit separately
- If <u>anything</u>, other than a numeral is present, it becomes a MIXED GROUP, MIXED GROUP FIGURE(S), or MIXED GROUP SYMBOL(S).
- These are Figures
  - o **145**
  - o **35**
  - o **13253**
- These are NOT
  - -145 (Mixed Group Symbol)
  - o 13,253 (Mixed Group Figures)
  - 2/3 (Mixed Group Figure)
  - 146.595 (Mixed Group Figures)
  - o 408.555.1212 or 408-555-1212 (Telephone Figures)

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Recommended	Santa Clara OA Shelter Status WebCC: 20130814 PDF: 190619
	Radio Operator Only: Origin Msg #: Destination Msg #:
Field Groupings	<b>†</b>
<ul> <li>Msg Nbr, Date, Time, Handing</li> </ul>	This Section to be Completed by Shelter Management Personnel: (Underlined-Required)
o To, From	Date: Time (24hr): Handling: Olmmediate (ASAP) OPriority (<1 hr) ORoutine (<2 hr)
	ICS Position: F ICS Position:
<ul> <li>Then go section by section</li> </ul>	T Location: R Location:
	0 Name: 0 Name: Contact Info: Contact Info:
<ul> <li>Say section name</li> </ul>	
<ul> <li>Say field name(s) and value(s)</li> </ul>	Report Type: OUpdate OComplete Important: See Instructions! Shelter Name:
<ul> <li>Shoot for about 5 items</li> </ul>	Shelter (If Report Type=Complete, then <u>Underline=Required</u> )
(fields/groups) at a time	Shelter Type: (Pick One) OType 1 OType 2 OType 3 OType 4
<ul> <li>Skip empty fields &amp; sections</li> </ul>	Status: (Pick One) OOpen (Green) OClosed (Red) OFull (Yellow)
o superinty relas a sections	Address:
	City: State:
	Zip:
	Latitude (d.ddd"): Longitude (d.ddd"):
0 1 11	Shelter Information (if Report Type=Complete, then <u>Underline=Repaired</u> )
See examples of the	Capacity:
other forme in Annondiv A	Occupancy:
other forms in Appendix A	Meals Served (Last 24 hours): NSS Number:
of the Message Handling	Pet Friendly: OYes ONo
of the <u>Message Handling</u>	Basic Safety Inspection: O'res O'No
Procedures document	ATC-20 Inspection: OYes ONo
	Available Services:
	MOU (where/how sent): Teorplan (where/how sent): SCGA ARS/MACLS Page 1 of 1
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69





Revised 11-Dec-2021

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- Slowly emerging from Pandemic restrictions: we were able to access field sites during second half of year
- Replaced 3 of 4 BBS computers with new hardware, virtualized BBS servers, backups
- Monitoring of network and power status
- Minor device and component maintenance, software upgrades

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74

#### Plans for 2022

- Finish hardware replacement of BBS computers
- Plan for firewall replacement
- Add subscriber stations (at EOCs, hospitals)
- Plan for County EOC relocation ~2024
- Software improvements (servers and JNOS) Big Thanks to Thomas KK6FPP and John W6JMK
- Possible automation of Practice Packet NetControl

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## Changes to FCC Station Evaluation Rules Yes, you need to do an

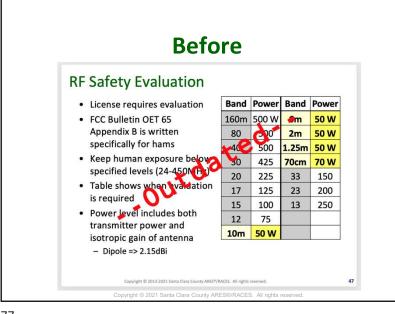
RF Safety Evaluation

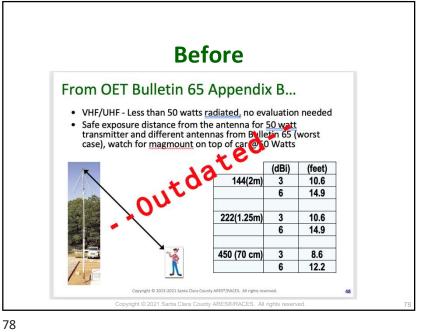
Andreas Ott, K6OTT Revised 11-Dec-2021

Acknowledgement: Morris Jones, AD6ZH

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76





### FCC Rule and Order 19-126 Effective May 2021

#### • From ARRL ARLB011:

The new rules do not change existing RF exposure (RFE) limits but do require that stations in all services, including amateur radio, be evaluated against existing limits, unless they are exempted. For stations already in place, that evaluation must be completed by May 3, 2023. After May 3 of this year, any new station, or any existing station modified in a way that's likely to change its RFE profile - such as different antenna or placement or greater power - will need to conduct an evaluation by the date of activation or change.

https://docs.fcc.gov/public/attachments/FCC-19-126A1.pdf

(159 pages, contains submitted comments, and math)

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But how?

- ARRL web pages (info, FAQ, calculator)
- <u>http://www.arrl.org/rf-exposure</u>

80

- <u>http://www.arrl.org/rf-exposure-calculator</u>
- QST article September 2021, pp. 60-62
- To get proof of evaluation: do it on ARRL web calculator, and then print to PDF and save file
- Controlled and uncontrolled exposure (have different maximum permissible exposure limits), you want to note the two distances for your setup

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#### And why would you care?

- RF energy gets absorbed into your body. It heats up tissue over time, and the more you transmit. It's accumulative, unless you let your tissue cool down in between transmissions (duty cycle).
- Human body is most susceptible to 30-300 MHz
- Controlled (your and your household) versus uncontrolled exposure (bystanders) have different maximum permissible exposure limits.

#### For which stations?

 All stations! The way I read the R&O, this applies to your home station or your EOC, and you have until May 2023 to comply if you have had that station without changes since before May 2021, but it also applies to stations we (temporarily) set up in the field for drills and exercises, and after you make a change to any station.

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81

# So, what are the new safe distances?

- It depends, they are the same as the old safe distances, but no more easy tables for lookup, and you will be surprised by what "used to be safe"
- Calculation is somewhat involved, as the rules are based on field strength and power density, two parameters not easily accessible; and dependent on the transmit frequency
- Variables to be filled in: transmitter power, feedline loss, antenna gain/loss, frequency, emission mode and transmitting duty cycle

#### **Easy to understand principles**

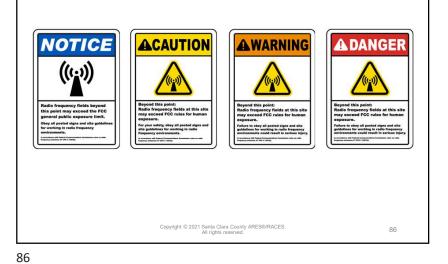
- Use low(er) power, as you should anyway
- Keep radio antenna away from body when feasible, or keep body away from radio antenna (heh)
- Let body cool down, exponential decay, take breaks in between transmissions (lower duty cycle)
- Keep transmissions short, efficiency as a goal
- Check common use cases: body-worn radio, magmount antenna on car roof, pushup mast
- Use conservative defaults as input

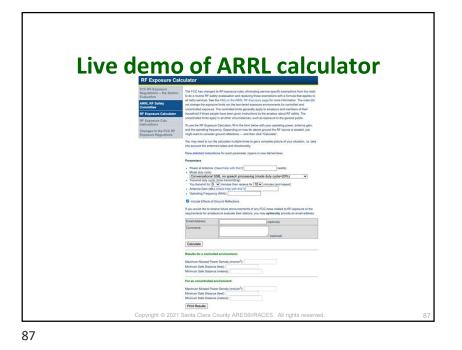
84

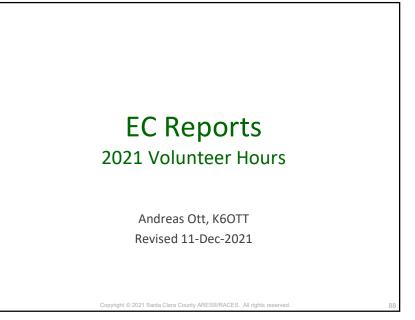
#### **Auxiliary documents**

- Radio, antenna and feedline datasheets
- The ARRL calculator has a references, also to the math and code they use
- The former OET Bulletin 65 and Supplements have not been updated since the R&O became the law and are still "under review" <u>https://www.fcc.gov/general/oet-bulletins-line</u>

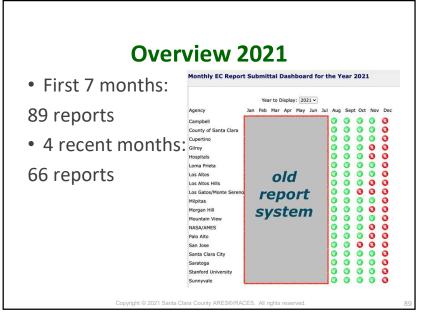
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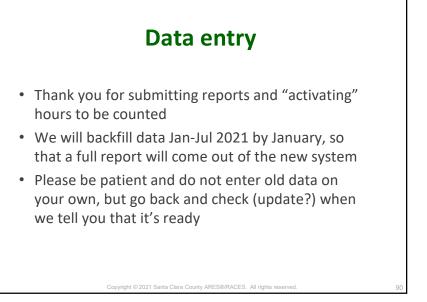






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- Jan Jul 2021: approx. 8,133 hours
- Aug Nov 2021: approx. 5,264 hours
- Dec 2021 estimate: 1,100 hours
- Year 2021 summary: approx. 14,500 hours \*

(Yes, there were more activities since July after restrictions were lifted, but we also think we are captioning more hours and more accurately through better reporting.)

 $^{\ast}$  The equivalent of \$ 2.175 M at minimum wage

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**2022 Training** Judy Halchin, KK6EWQ Revised 3-Dec-2021

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91

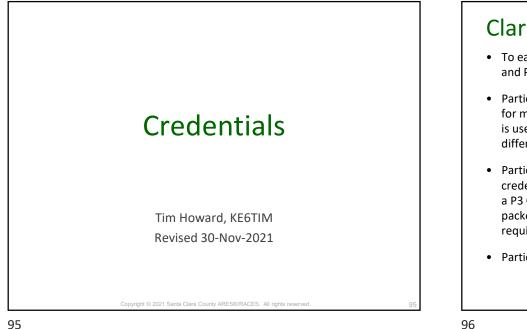
#### 2021 Review

- All the regular classes were offered
- Zoom-to-classroom transition
  - Plenty of masks and plenty of space
  - Largest classes stayed on Zoom
- Field Operations classes over the air
- Online class evaluation forms

#### 2022 – What to expect

- Another good year for Gumby
- Watch your email and the sign-up pages
- Full slate of classes scheduled
- Packet practice and mini-drill April 30
- Annual drill September 17 mark your calendar

94



#### **Clarification of Requirements**

- To earn a Credential, participation in Training Classes, Exercises, and Public Services events must be completed within two years.
- · Participation in Exercises and Public Service events can not be used for more than one credential. For example: if a Public Service event is used for your C4, it can not also be used for an F3 Credential. A different Public Service event is required.
- Participation in an activity must be in the same role as the credential it is being applied to. For example: if you are working on a P3 Credential, the duties you performed at the activity must be packet-related. Working as a Field Operator will not satisfy the requirements for a Packet P3 Credential.
- Participation must be at a credential-approved activity.

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#### Clarification of Requirements

- Equipment checks are good for one-year. For example: if you completed an F3 equipment check, you can use that for an N3 within one year and do not need to repeat the equipment check.
- Where equipment requirements are different, you would only need to have the additional equipment checked.
- Radio familiarity and Knowledge tests are also valid for one year.
- Again, where requirements are different, only the additional requirements would need to be done.

#### **Clarification of Requirements**

- To maintain Credentials, you must
  - Take part in two credential-qualified activities (exercises, events, incidents) within each two-year period
  - $\circ~$  Or take part in one credential-qualified activity and at least one "End of Year Summary' class within a two-year period.
- Failure to do so will result in loss of Credentials. We made an exception for 2020 but will be looking at participation again moving forward.
- There is a reinstatement process outlined in the "Credential Program Handbook" that can occur within two years of losing a Credential.

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98

