

K6MTV

ARES/RACES

Station Operation

What to do when Jerry isn't there!

Why do you need to know this?

- ❖ You may be the first one at the station after a disaster occurs.
- ❖ You may need to change channels or frequencies.
- ❖ You may need to adjust volume or squelch.

What functions do we need to put into operation?

- ❖ **County Message Net** – City to Santa Clara County OpArea
- ❖ **Local Tactical Net** – Field Stations to Mountain View EOC
- ❖ **Resource Net** – SPECS wide area-repeater; Identify available Hams
- ❖ **Packet Emergency BBS** – PacForms to county, CERT reports to city
- ❖ **Local Message Net** – as necessary on Secondary Tactical

What rigs do we use?

- ❖ **County Comm.** – Kenwood TM-D700 Dualbander
- ❖ **Local Tactical** – Kenwood TM-V71 Dualbander
- ❖ **Resource Net** – Kenwood TM-D700 Dualbander
- ❖ **Packet** – ALINCO DR-235T 220 Singlebander, Kenwood TM-D710 Dualbander & Kenwood TM-V71 Dualbander (Restricted Access)

What frequencies do we use?

- ❖ **TM-D700A – County Communicator**
 - ◆ Left Side–Channel 8–147.360(R)–Msg. Net
 - ◆ Right Side–Channel 103–442.500(R)–Cmd. Net
- ❖ **TM-V71 – City Tactical Communicator**
 - ◆ VHF Band (center)–Channel 2–146.535(S)–Primary Tactical
 - ◆ UHF Band (right)–Channel 1–440.800(R)–Command
- ❖ **TM-D700A – Resource Net Communicator**
 - ◆ Left Side–Channel 1–145.270(R)–North County, or 146.415(S)-Message Net
 - ◆ Right Side–Channel 10–146.115(R)–County-Wide

I can't remember this. Are there cheat sheets?

- ❖ **Each operating position and its associated rig has a cheat sheet.**
- ❖ **Yellow sheet has procedures for starting and setting the radio.**
- ❖ **White sheet has the listing of programmed memory positions.**
- ❖ **If you really get stuck, the manuals are in the lower left-hand file drawer to left of the Tactical position.**

Example Cheat Sheet

Quickstart Procedure

- Kenwood TM-D700 Dualbander
- Turn on Workman PS-20 power supply in cabinet closest to the door.
- Press “PWR” button at upper right corner of radio control panel.
- Select band to be active for transmit by pressing one of 2 knobs on right side of panel. Active band has larger numbers & “PTT” appears over frequency display. Inactive (but monitorable) band has smaller numbers.
- Adjust volume (knob) and squelch (ring) individually for each band as desired.
- Select desired memory channel for active band by rotating tuning control (lower left end of panel) or by pressing “UP/DOWN” buttons on microphone.
- Set desired transmit power level for active band by repeatedly pressing “LOW” button.
- Note:
 - Earphone jacks are on left rear of the rig. Use jack closest to center of rig to monitor both bands
 - To enter random frequency for active band, press “VFO” button (left end of panel) and rotate tuning knob. Return to memorized channel by pressing “MR”.
- Repeater Operations
 - ◆ Setting duplex—Press Func, then SHIFT
 - ◆ Setting tone On/Off—Press TONE
 - ◆ Selecting tone frequency—Press Func, then T.SEL
- Memory Operations
 - ◆ In VFO mode, Set frequency, offset & tone
 - ◆ Press Func
 - ◆ Rotate tuning knob to select channel in which to store
 - ◆ Press M.IN button on left side of panel face.

Kenwood TM-D700
dual transmit/receive multiband radio



Kenwood TM-V71A
dual transmit/receive multiband radio



What if the repeaters are down?

- ❖ Try operating on the repeater output frequency.
 - ◆ Select VFO and enter the repeater output frequency, or
 - ◆ Turn off “Duplex” mode
- ❖ Listen on the Command or Message Net for directions from County.

What if the primary simplex frequencies are unusable?

- ❖ **Try the alternates:**
 - ◆ **146.415 or 147.460 MHz**
 - ◆ **Try a frequency between 145.500 and 145.600 MHz. (Experimental portion of the band if true emergency)**
- ❖ **Try SPECS UHF Repeater, 440.800 MHz**

Keeping Logs

- ❖ If it isn't written down it didn't happen.
- ❖ All traffic must be logged. Take time to do it.
- ❖ Use the log books provided.
- ❖ Write legibly.
- ❖ Turn in at end of shift.

What Logs are Required?

- ❖ ICS 211A – Checkin List
 - ❖ Each Individual
- ❖ ICS 214 – Unit Activity Log
 - ◆ Each operating position
 - ◆ All activities and messages are Logged
- ❖ ICS 309 – Communications Log
 - ◆ All Official traffic is logged
 - ◆ Used by County Communicator and local message net Operator

Message Routing

- Each operating position has an *IN* and an *OUT* box
- Supervisor has two *PENDING* and one *FILE* box
- Station has an *IN* and *OUT* box
- Message form is four parts NCR with routing instructions at bottom of page and instructions on the back

Using T-Cards

- Why
- Who
- How

Reminder: After the shaking stops...

- ❖ Monitor 145.270 repeater.
- ❖ Listen for K6MTV to activate.
- ❖ When instructed, switch to 146.535 simplex.
- ❖ Check-in with MTV Net control.
- ❖ Standby for activation and assignment.

Source: MTV ARES/RACES Emergency Plan

Wrap-up

- ❖ Questions/Discussion
- ❖ Personal Experiences
- ❖ Tour of K6MTV