

# KARSEN PLANNING GROUP

March 26, 2011

**Kern Amateur Radio System EmCOMM Network**

Hosted by:

**Houchin Community Blood Bank**

26<sup>th</sup> & G Street Bakersfield, CA 93301 and

**Kern County Central Valley Amateur Radio Club** [www.w6lie.org](http://www.w6lie.org)

**Our thanks to the management of Houchin Blood Bank and to  
Randy Greenlee – KI6ETA, Safety Coordinator**

**You can't thank this planning group enough for their hard  
work and dedication over the past 6 weeks – they moved  
this project along.**

# THANK YOU

Kern County Central Valley Amateur Radio Club  
Sequoia Amateur Radio Group  
Tehachapi / Bear Valley CERT  
Bakersfield ERC  
The Salvation Army – SATERN  
Sierra Amateur Radio Club

Your Planning Group Members:

***KD6UQZ KJ6CVL KI6LPC N6SR K6GMR W6DGP W7FYV  
N6RWA N6SMU K6JLL KG6YSZ AB6CF KA6IYS KI6ETA  
KG6DUC KI6KIB KC5LUB KF6JOQ K6RYD KI6FDX***

The repeater trustees who eagerly authorized use of their equipment.

# ***KARSEN Planning Group***

- The planning group is comprised of representatives from all 6 of the known clubs or faith based EmCOMM units in Kern County. They met on Dec. 11 & 22, 2010, Jan. 29, 2011 and March 26, 2011.
- The support for a comprehensive interoperable county wide EmCOMM net is very strong.
- This work product results from the effort of a lot of Kern County hams and they can take pride in the outstanding job they did for their hobby and their community.

# KCCVARC 1-22-11

KCCVARC Area Controllers met for input on 1-22-11.

Reviewed the work done on 12-11-10 by the KARSEN Planning Group.

Discuss geospacial layout of our WKC areas.

Sub-Committee Chair K6GMR – Done

Develop a Communications Plan for KCCVARC WKC.

Sub-Committee Chair N6SMU – Being finalized

Develop a call up/listen up and check-in procedure.

Continued

Review the work of the other 5 groups on these subjects.

Done

➤ **Documents at [www.w6lie.org](http://www.w6lie.org) as available.**

# General Frustration on 12-11-10

- Where we are now?
  - Nowhere
  - Internal disarray
  - Winging it
  - Coffee
  - ? organized = disorganized **xxxxx**
    - New beginning
    - Fragmented **xxxxx**
    - Integration **x**
    - Small core group **x**
    - Disinterested **x**
  - Current perception is poor **x**

# Our vision for the future

- Where do we want to be?
  - ✓ Organized **x**
    - Simplex to Bakersfield
  - ✓ Comms plan **xxxxx**
  - ✓ Em comm. Plan **xxx**
    - Communicate
  - ✓ Educate and Training **xx**
    - ✓ Management structure
  - ✓ Served agencies integration
  - ✓ Organized external face
    - ✓ Unified face
    - ✓ Public Relations
  - Resource Typing **x**

# Mission Statement

*We will help our communities and served agencies, if requested by served agencies, national, state, or local emergency managers; and supplement, extend, or replace impacted commercial or government communications systems in emergency or public service situations; by using trained and FCC licensed amateur radio operators using our own, served agency, or government-provided, amateur radio equipment and systems.*

# Name this baby??

- Does this undertaking need a formal name? **Yes** If so what?

✓ **KARSEN** – Kern Amateur Radio System  
EmComm Network

❖ This project is more than a “Net” – it’s a collaborative network of all the groups in Kern County.

# KERN COUNTY NETS

Based only on the day of the week. Rev. 3-30-11

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
<b>WKC ARES</b>		<b>CBBS NET</b>				<b>Tehachapi/Bear V</b>
1900 L 145.150 (-) PL 100 146.910 (-) PL 100		2nd Wednesday CA Blood Bank Net 1830 L 3.880 KHz 7.245 KHz				1900 L 146.700 (-) PL 123
<b>FRESNO ARES</b>						<b>KCCVARC</b>
1930 L 147.150 (+) PL 141.3		<b>Kern River Valley</b>				2000 L 145.150 (-) PL 100 146.910 (-) PL 100
<b>TULARE ARES</b>		<b>Discussion Net</b>				
1930 L 145.310 (-) PL 141.3 146.880 (-) PL 103.5		1900 L 145.450 (-) PL 156.7				
	<b>Kern River Valley</b>	<b>SKYWARN</b>	<b>Kern River Valley</b>		<b>Kern River Valley</b>	<b>Bfl ERC Net</b>
<b>SATERN</b>	<b>HF Net</b>	<b>Natl. Weather Srvc</b>	<b>HF Net</b>		<b>HF Net</b>	2100 L
2000 L 147.150 (+) PL 100 146.670 (-) PL 100	2000 L 3.812 MHz	1900 L 146.880 (-) PL 103.5	2000 L 3.812 MHz		2000 L 3.812 MHz	146.400 146.505

# Kern County Repeaters 1.

Rev. 3-30-11

#	Common Name	Output f	Offset	PL	Link to #	Callsign	Emergency Power	Footprint
1	<b>Breckinridge Mt</b>	<b>145.150</b>	-	100.0	2	W6LIE	batt/gen	WKC/TUL/Kngs/EKC/FRES
2	<b>Grapevine Pk</b>	<b>146.910</b>	-	100.0	1	W6LIE	batt	WKC/NLA/EK
3	<b>Breckinridge Mtn</b>	<b>224.060</b>	-	100.0		W6LIE	batt/gen	WKC/TUL/Kngs/EKC/FRES
4	<b>Adelaide Mtn</b>	<b>146.670</b>	-	100.0	ARRG	N6SMU	gen	WKC
5	Sawmill	145.450	-	156.7		KC6OCA	batt/solar	KRV
6	Bird Springs Pass	146.085	+	141.3	Pend 1	KF6FM	gen	IWV/KRV
7	<b>Oak Flat</b>	<b>145.190</b>	-	67.0	11 + Vent	KK6AC	batt/solar	WKC/KRV/Kern River Cyn/VEN,EKC
8	<b>McKittrick</b>	<b>147.270</b>	+	100.0	27,29	K6RET	gen	WKC
9	Adelaide Mtn	147.210	+	100.0		K6RRS	gen	WKC
10	<b>Frasier Pk</b>	<b>447.040</b>	-	136.5		N6SMU	gen	WK/EKC/NLA/ESLO/FRES/TUL/Kng
11	<b>Frasier Pk</b>	<b>447.860</b>	-	141.3	7	KK6AC	gen	WK/EKC/NLA/ESLO/FRES/TUL/Kng
12	<b>Frasier Pk</b>	<b>52.560</b>	-	82.5		N6BKL	gen	WKC/Malibu/AZ/SB/NV/NLA
13	<b>Table Mountain</b>	<b>145.280</b>	-	131.8		KW6WW	gen	SB/RIVERSIDE/EKC
14	Shirley Pk	145.410	-	103.5		W6LI	none	KRV/WKC
15	<b>Shirley Pk</b>	<b>443.000</b>	+	141.3	ARRG	KK6AC	none	KRV/WKC

# Kern County Repeaters 2.

#	Common Name	Output f	Offset	PL	Link to #	Callsign	Emergency	Footprint
							Power	
16	<b>Tehachapi</b>	<b>147.150</b>	+	100.0	20,25,26	KG6KKV	batt/gen	TEH/WKC/EKC/NLA
17	Tehachapi	445.500	-	131.8		WA6CGR	solar	WKC/EKC/FP
18	<b>Tehachapi</b>	<b>146.700</b>	-	123.0	29,WIN	W6SLZ	batt	TEH/EK/KRV/WKC/TUL
19	<b>Ridgecrest</b>	<b>146.640</b>	-			WA6YBN		IWV/INYO
20	<b>Tehachapi</b>	<b>444.425</b>	+	100.0	16,25,26	KG6KKV	batt	TEH/WKC/EKC/NLA
21	<b>Grapevine Pk</b>	<b>52.780</b>	-	88.5		W6LIE	batt	WKC/EKC/LA
22	<b>Table Mountain</b>	<b>147.240</b>	+	91.5		KW6WW	gen	SB/RIVERSIDE/EKC
23	<b>Table Mountain</b>	<b>224.400</b>	-	91.5		KW6WW	gen	SB/RIVERSIDE/EKC
24	<b>Table Mountain</b>	<b>445.240</b>	-	127.3		KW6WW	gen	SB/RIVERSIDE/EKC
25	<b>Tehachapi</b>	<b>51.880</b>	-	114.8	16,20,26	KG6KKV	batt/gen	TEH/WKC/EKC/NLA
26	<b>Tehachapi</b>	<b>224.520</b>	-	100.0	16,20,25	KG6KKV	batt/gen	TEH/WKC/EKC/NLA
27	<b>McKittrick</b>	<b>224.780</b>	-	100.0	8,29	K6RET	gen	WKC
28	<b>Tehachapi</b>	<b>440.625</b>	+	88.5	18,WIN	W6SLZ	batt	TEH/EK/KRV/WKC/TUL
29	<b>McKittrick</b>	<b>444.925</b>	+	103.5	8,27	K6RET	gen	WKC
30	<b>Bakersfield</b>	<b>443.900</b>	+	100.0		W6LIE	gen	BFL

# Kern County Repeaters 3.

#	Common Name	Output f	Offset	PL	Link to #	Callsign	Emergency Power	Footprint
31	<b>Bakersfield</b>	<b>444.750</b>	-			N6SMU		BFL
32	<b>Bakersfield</b>	<b>145.210</b>	-	100.0		KF6JOQ	Batt	BFL
33	<b>Shirley Pk</b>	<b>143.000</b>	-	141.3	AARG	KK6AC		WKC, VIS, PTRVL, FRES,CHOW,EKC
34	<b>Buckrock</b>	<b>443.250</b>	+	103.5	CARLA 7,11	KK6AC	gen	BFL -STKTON,
35	<b>Frasier Pk</b>	<b>447.860</b>	-	141.3	CARLA	KK6AC		WKC,VEN,ORANGE,EKC
36	<b>Chan Islands</b>	<b>445.760</b>	+	141.3	CARLA	KI6HHU		Camarilo, Snta Barb, Fillmore
34	<b>Tehachapi</b>	<b>442.925</b>	+	131.8	Pend	KI6HHU	Solar	TEH, LNSTR, PLMDL,
35	<b>Ridgecrest</b>	<b>147.000</b>	+	107.2	Randsburg	WA6YBN		
36	<b>Randsburg</b>	<b>145.340</b>	-	100.0	Ridgecrest	WA6YBN		
37	Ridgecrest	145.050	-			W6DWF		
38	El Paso	144.390	-			WI6RE		
39	Ridgecrest	447.020	-	123.0	Trona	W5HMV		
40	Trona	146.970	-	123.0	Ridgecrest	K6YYJ		

# Trustee Letter

Dear Repeater Trustee:

My name is \_\_\_\_\_ and my call is \_\_\_\_\_. I am the interim chairman of the Emergency Communications Committee of the Kern County Central Valley Amateur Radio Club. Our Board of Directors wanted to promote the ability of hams to help hams in an emergency. We are developing a more comprehensive integrated emergency communications network in Kern County in order to support amateur radio operators and, if requested, the public. The planning group is comprised of representatives from the following clubs, groups, or organizations should they voluntarily choose to participate. At this time all six groups have expressed interest in this project.

Kern County Central Valley ARC  
Sierra Amateur Radio Club  
Sequoia Amateur Radio Group  
ERC  
Tehachapi/Bear Valley  
Salvation Army - SATERN

We recently held our first planning meeting and collectively felt it was professional and respectful to ask for permission to use assets that are not owned by our respective organizations and clubs.

This is not a request to use your equipment for regularly scheduled nets and training. ***It is a request for your permission, in advance, to use your machine in an emergency, and limited training, to facilitate familiarity with redundant paths that might be used to get the message through when W6LIE club equipment is inoperable or doesn't cover impacted areas.***

Please return a copy of this letter in the enclosed stamped envelope indicating your approval or denial of this request. Thank you in advance for your kind attention.

Sincerely,

# Trustee Response

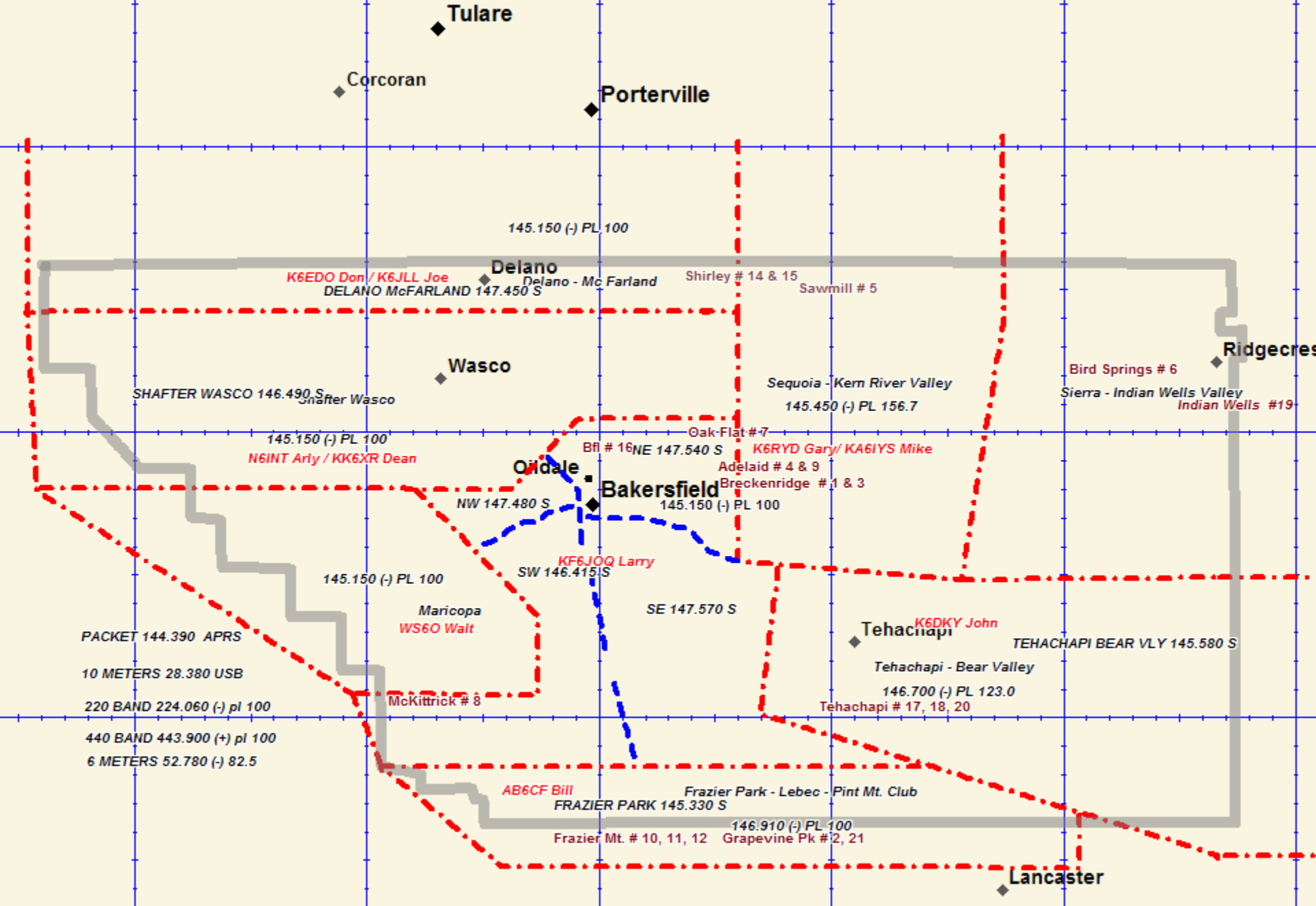
As of 1-29-2011 we received 9 of 14 letters back from trustees granting permission to use 33 of the 40 sites in and around Kern County for emergencies.

Thank you

# DRAFT FREQ. PLAN

## Under Review - Standby

	PR	BUR	TAC	LUF
<b>Greater Bakersfield</b>				
North East Bak.	145.150(-)100	146.910(-)100	145.540	145.150
South East Bak.	145.150(-)100	146.910(-)100	147.570	145.150
South West Bak.	145.150(-)100	146.910(-)100	146.415	145.150
North West Bak.	145.150(-)100	146.910(-)100	147.480	145.150
Bakersfield ERC			146.400	145.150
<b>Mountain &amp; Desert</b>				
Kern River Valley	145.450(-)156.7		146.450	145.150
Frazier & Pine Mt	146.910(-)100		145.330	146.910
Tehachapi & Bear Vly	146.700(-)123	145.150(-)100	145.580	145.150
Ridgecrest & IWV				
<b>West Side</b>				
Maricopa	145.150(-)100	146.910(-)100	146.580	145.150
Taft	145.150(-)100	146.910(-)100	146.580	145.150
Shafter Wasco	145.150(-)100	146.910(-)100	146.490	145.150
Delano McFarland	145.150(-)100	146.910(-)100	147.450	145.150
<b>Alternate Bands / Modes</b>				
Packet / APRS			144.390	
220 Band	224.060(-)100			145.150
440 Band	443.900(-) 100	444.750(+)141.3		145.150
6 Meters	52.780 (-) 82.5			145.150
10 Meters	28.380 usb		28.380us	145.150
Red Cross			147.420	
SATERN				



# Call up?? / Listen up??

Under development – Stand by

If an event occurs and activation is anticipated or needed:

- Do we need a formal call up telephone / e-mail / text plan? **YES**
- Should we also have an informal listen up procedure? **YES**
- Do we need to do both formal & informal procedures? **YES**

✓ This needs to be assigned out for development.

- **Who needs contacted?**
- **How soon?**
- **What do they need to know?**
- **How do you keep the chain from breaking?**
- **Do we need to alert a chain of command outside that area?**
  - **Who?**

# TRAINING Pg. 1

All licensed amateurs may be **MEMBERS** if they complete form FSD 98:

- ✓ **Associate Members** must possess a current valid Amateur Radio License and desire to serve.
  - They should review the old **EC-001** course on [www.w6lie.org](http://www.w6lie.org) under EmCOMM. When the new **EC-001** course is released by ARRL in mid 2011 they should take and pass that training by December 31, 2011 unless otherwise waived. At that time they may be advanced to full ARES Membership.
- **Area Controllers (AC)** review the old **EC-001** course now on [www.w6lie.org](http://www.w6lie.org) under EmCOMM.
  - Take and pass the new **EC-001** by December 31, 2011 unless otherwise waived.
- **Net Control Stations (NCS)** review the old **EC-001** course now on [www.w6lie.org](http://www.w6lie.org) under EmCOMM.
  - Take and pass the new **EC-001** by December 31, 2011 unless otherwise waived and take & pass FEMA **IS-100b**.

## Where to obtain training material

- **EC-001 Introduction to Emergency Communications - Level 1** the old review power points are on [www.w6lie.org](http://www.w6lie.org) under **EmCOMM**. The new **EC-001** will be offered in mid 2011 – We will try to do the training in Bakersfield.
- **FEMA IS-100b** Introduction to the **Incident Command System (ICS)** - **Free - Done**  
<http://www.training.fema.gov/EMIWeb/IS/IS100b.asp>
- **IS-200b** **ICS for Single Resources and Initial Action Incidents** - **Free - Done**  
<http://www.training.fema.gov/EMIWeb/IS/IS200b.asp>
- **IS-700a** **National Incident Management System (NIMS) An Introduction** - **Free - Done**  
<http://www.training.fema.gov/EMIWeb/IS/is700a.asp>
  - *Elmer's locally will help since this material is new to many of you.*

# TRAINING Pg. 2

Future training **may** include the following FEMA and ARRL classes. *Will be revisited again as we move forward.*

**IS-800b** National Response Framework, - **Free - Done**  
Introduction <http://www.training.fema.gov/EMIWeb/IS/IS800b.asp>

**IS-802** Emergency Support Function (ESF) #2 Communications  
<<http://www.training.fema.gov/EMIWeb/IS/IS802.asp>> **Free** *From what we are told this is a very relevant class.*

**EC-002** Amateur Radio Emergency Communications Course Level II

**EC-016** Public Service and Emergency Communications Management for Radio Amateurs <<http://www.arrl.org/online-course-catalog>>

# To - DO - List

- ✓ **Test** all Houchin Community Blood Bank radios – **completed 1-29-11**
- ✓ Conduct a Monday night Net from Houchin Community Blood Bank
- ✓ **Check-in** to the CA Blood Bank Net from HCBB or a Gateway Station
- **Set a date** for the next KARSEN Planning Group Meeting - *as needed*
- ✓ **Tasks** for the next KARSEN Planning Group Meeting 3-26-11: **Tasked out**
  - **Prepare an MOU with Houchin Community Blood Bank as our FIRST Served Agency**
  - **Sub Committee report on Repeater & freq. Coordination - Unfinished**
    - Ted, N6SMU, Dave, KG6YSZ, Frank, KD6UQZ
  - **Sub Committee report on Geospacial Review - Complete**
    - Greg, K6GMR, Larry, KF6JOQ
  - **Task out the Call up / Listen up plan for development - Continued**
  - **Task out research on inexpensive reliable modes for formatted data transmission - Continued**
- **Meeting schedules: As notified when necessary**
  - **Information Meeting – New member orientation – Held as needed.**
  - **KARSEN Planning Group** - When sufficient business requires a meeting and as notified.
  - **Locations** - will be announced in advance and material will be on [www.w6lie.org](http://www.w6lie.org) web site.
- ❖ **Thanks for participating we are moving ahead!**