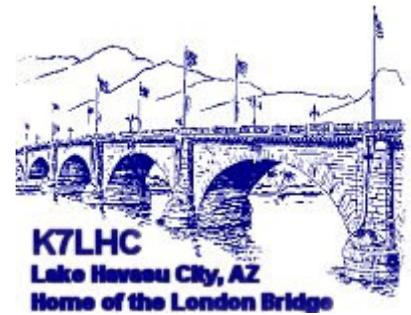


STATIC



SEPTEMBER, 2008

Deadly Misunderstandings About Power Lines

(Note: This past summer a ham and his son in Kansas City, KS were electrocuted while erecting an antenna. Here are some important points to keep in mind—Your Editor)

The voltages on distribution power lines (typically 1200 V to 35,000 V) are higher than most people can comprehend. Transmission power line voltages are even higher, in the hundreds of thousands of volts. One need not come in direct contact with power lines to suffer electrocution. Here are reasons why.

Point 1. Air has an electrical breakdown point. If the electric field, or voltage over a given distance, exceeds the breakdown voltage/field property of the air, it will arc. That is why there is a MINIMUM distance to respect. Ignore it and you will pay. The higher the voltage, the greater the distance you need to respect.

Point 2. An object in direct contact with the power line need NOT be a conductor for current to flow across it. At sufficiently high voltage (and the power lines are sufficiently high in voltage) flashover can occur. Moreover, impurities (dust, pollen, etc.) on the surface of the object can enhance the flashover. Kite strings are an example of a "non-conductor" that conducts quite well.

Point 3. Consider the spark that occurs when you unplug the vacuum cleaner from the outlet when the motor is still running. That is because of the amount of current at the time, the motor's and other inductances and some very straightforward physics: $Emf = L di/dt$. Oversimplified, if you try to interrupt that current, voltages get very high as the current "attempts" to maintain itself and the voltage/electric field becomes higher than the breakdown level of air. Now consider how much more current the power line can supply! Once you've introduced a path for that current, no matter how briefly, you've invited an electrical Tsunami. And it won't stop flowing until it is good and ready to stop.

Point 4. Another hazard: power lines have switches located at the tops of the poles. Many of these are monitored and controlled remotely (by radio!) Many are programmed to open when a problem occurs "downstream." These switches can and will open, repeatedly, without warning. They are designed to break the arcing that will occur when the switch is opened, but nothing ever works perfectly all the time. Arcing can occur several meters through the air for the better part of a minute under the right conditions. If you are nearby, it may reach out and touch you.

Point 5. Periodically along the lines the poles have "pole bonds," ground wires that literally ground the overhead ground to mother earth. You can unwittingly parallel yourself to this harmless-looking ground wire. Worse, it is a prime target for copper thieves who cut the conductor a few feet above the ground. Then you have an open circuit to ground. If you complete that circuit, your loved ones may grieve.

The utilities refer to a shorted circuit as a "fault." When a fault occurs, it sounds like a cannon. Squirrels, snakes and tree limbs cause most faults. Cars hitting and breaking the utility poles cause a few as well, and often result in a fire. Sometimes the faults are would-be copper thieves (not knowing that the conductors are aluminum.)

Stay well away from the power lines. Stay away from the poles. Don't hang around under the poles or lines. It is a silent hazard. It only takes ONCE. No second chances, no do-overs, no repeats.

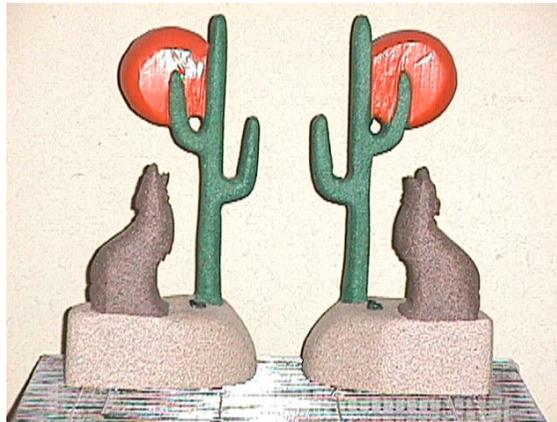
Thanks to Lawrence Kendall, K5END (eHam.net)

LBARA MEETING SCHEDULE

MONTH	BOARD	REGULAR
SEPTEMBER	NOTE: BOARD	9/18
OCTBER	MEETINGS WILL NOW	9/18
NOVEMBER	TAKE PLACE ONE	11/20
DECEMBER	HOUR PRIOR TO THE	12/20
JANUARY	REGULAR MEETING	1/15

WANTED: LOST TROPHY

Someone out there is the current custodian of the Club's Fox Hunting Trophy. The traveling trophy to hunts that had years and we once again. Hope will jog someone's trophy will be re-



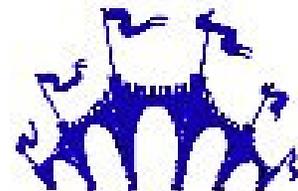
Club gave out this the winners of fox been held in past would like to do so fully this picture memory and the turned the Club.

The London Bridge Amateur Radio Association

Fox Hunt Traveling Trophy

Monday Night Net (7 PM)

System	Location	Freq	Offset	PL
MCARS	Bullhead City	145.27	-	131.8
	Kingman	146.76	-	131.8
	Kingman	448.25	-	131.8
	Lake Havasu	146.62	-	131.8
	Willow Beach	147.12	-	131.8
CRRRA	Lake Havasu City	146.96	-	162.2
	Lake Havasu City	224.24	-	156.7
	Lake Havasu City	146.64	-	156.7
	Lake Havasu City	449.95	-	141.3
BARN	Lake Havasu City	447.54	-	136.5
	Las Vegas, NV	449.95		136.5
	Onyx(Palm Springs)	449.34	-	136.5
	Orange County, CA	447.54	-	100



If You Read The Article on Page 1 And Still Are Not A Believer....Take A Look At These Videos!

- **Electrical Power Safety Demonstration** - Excellent demo and worth watching
- http://www.youtube.com/watch?v=2_4gsPe7BuM&feature=related

- **Electrical Power Line Safety Demonstration**
- <http://www.youtube.com/watch?v=OAm0q0YF1RQ>

- **34 to 13KV Flash Incident** - Watch the arcing destroy a whole neighborhood
- <http://www.youtube.com/watch?v=IEAtWiUGeIA>

- **500KV Substation Arc**
- <http://www.youtube.com/watch?v=hIkNY5xjy5k>

I HAVE A QUESTION

Why do croutons come in airtight packages? Aren't they just stale bread?

If it's true that we are here to help others, then what exactly are the others here for?

As income tax time approaches, did you ever notice: When you put the two words 'The' and 'IRS' together it spells THEIRS?

Why do they put pictures of criminals up in the Post Office? What are we supposed to do, write to them? Why don't they just put their pictures on the postage stamps so the mailmen can look for them while they deliver the mail?

UPCOMING ACTIVITIES AND HAMFESTS

October 18 - Annual Swapmeet, Old Pueblo Radio Club, Kino Sport Park, Tuscon, AZ (N7SQQ)

December 6 - Superstition Amateur Radio Club, Mesa Community College, Mesa, AZ (K7JLF)

January 10 - Westfest, Thunderbird ARC, Thunderbird School of Mgmt, Glendale, AZ (W1ADW)

Local Repeater Frequencies

<i>Call</i>	<i>Frequency</i>	<i>Offset</i>	<i>Tone</i>	<i>Location</i>	<i>Affiliation</i>	<i>Linked to</i>	<i>Comments</i>
W7GAA	145.170	-0.6			W. AZ. R.C.		
				Bullhead City			
		+0.6	131.8	Christmas			
	145.310	-0.6	107.2	Guadalupe, AZ	Cactus		
KF6BM	145.380	-0.6	162.2	Chuckwalla,			
K7LHC	146.620	-0.6	131.8	Lake Havasu	L.B.A.R.A.		
K7LHC	146.640	-0.6	156.7	Lake Havasu	L.B.A.R.A.		
KC7GSA	146.640	-0.6	123.0	Bullhead City			
K7LKL	146.680	-0.6	162.2	Smith Peak,	CALZONA	AZ TO CA	
N7SKO	146.760	-0.6	131.8	Kingman	H.A.R.C.		
KC7IFD	146.800	-0.6	123.0	Kingman			
WB7NOU	146.850	-0.6	162.2	Parker			
WA6LAW	146.880	-0.6	162.2	Blythe Black			
	146.960	-0.6	162.2	Lake Havasu		KF7X,	
	147.100	+0.6		Dolan Springs			
WM6Z	147.120	+0.6	103.5	Black Moun-	CALZONA	AZ TO CA	
WA7LAZ	147.160	+0.6	131.8	Kingman			
K6SHH	147.320	+0.6		Dolan Springs			
N7DRH	147.300	+0.6	100.0	Bouse	Rattlesnake	W7DXJ, 146.96	
KF7X	224.240	-1.6	156.7	Lake Havasu		W7DXJ,	
WB6RUF	224.880	-1.6	156.7	Kingman	Condor		
WB7T	447.540	-5	136.5	Lake Havasu City	Barn	Onyx Pk.	Closed
W7MCF	448.725	-5	100	Lake Havasu	Cactus	Guadalupe	Closed
KB7YKY	449.950	-5	141.3	Lake Havasu		W7DXJ,	

Tnx to Dick Jernigan, W7DXJ



2008 Route 66 On The Air

September 13-21, 2008

GUIDELINES

BACKGROUND: US Highway 66 established in 1926, was the first major improved highway to link the west coast with the nations heartland. Through stories, songs, and TV shows, the highway came to symbolize the spirit of the freedom of the open road, inspiring many to see America. However, the demise of Route 66 began in the 1950's as the US began building it's interstate highway system, and the highway was officially decommissioned in 1986. None the less, small portions of the US Highway 66 still exist in towns and rural areas in several states.

The Special Event: The purpose of this event is a way to offer amateur radio operators a fun way to "Relive the Ride" and their own memories of Route 66, and to celebrate the highway's 82nd anniversary. For this we present:

The Ninth Annual "Route 66 On The Air" Special Event.

Amateur Radio Clubs using 1 X 1 call signs will operate from 17 cities and 2 rovers along the highway during the special event period, 13th September (00:00:01z) through 21st September (24:00:00z) aiming to contact as many amateur radio operators as possible who would like to take part in this annual event.

SUGGESTED OPERATING FREQUENCIES: Special event stations are likely to be found somewhere in the vicinity of the following frequencies. (Look for digital modes in the standard band segments for such mode) All Frequencies +/- QRM

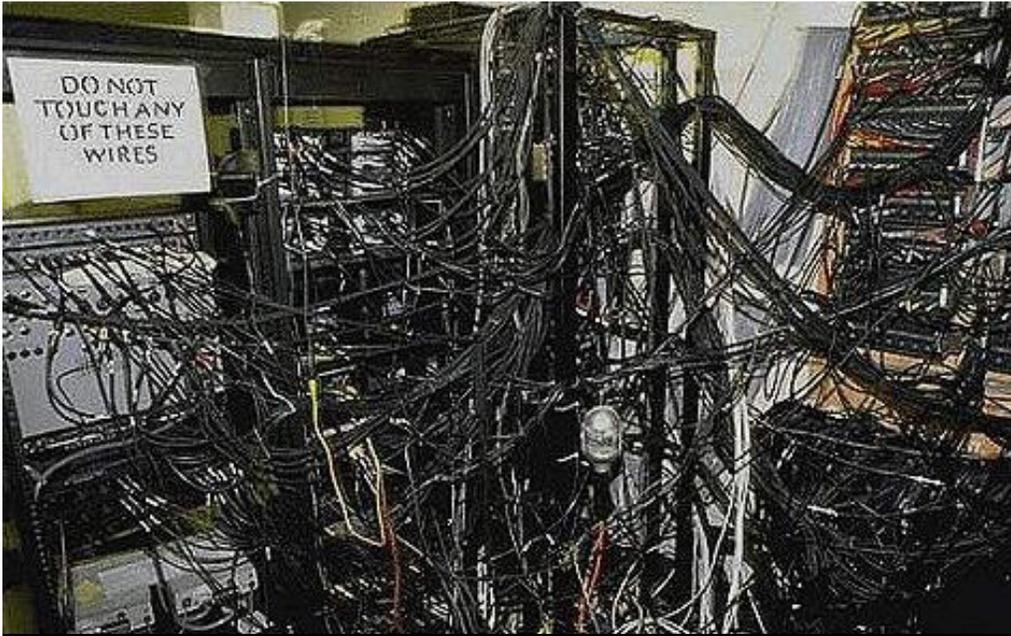
Hz.	80M	40M	30M	20M	17M	15M	12M	10M	6M
CW	3533	7033	10110	14033	18080	21033	24900	28033	50033
SSB	3866	7266	N/A	14266	18164	21366	24966	28466	50166

ROUTE 66 MOBILE: Any amateurs operating while actually driving along Route 66 during the special event period are encouraged to take part in Route 66 On The Air, by using the designation "mobile 66" for Phone or "/m66" for CW after their call signs. All other amateur radio operators are welcome to contact these mobile operators.

REPEATERS: Some of the participating clubs will also be operating this event from their local VHF/UHF repeaters. Check the ARRL repeater guide for possible repeater frequencies if your in the local area.

For More Information on the 2008 Route 66 On The Air go to:

http://www.w6jbt.org/Route_ota/General_Pages/TableOfContents.htm



**Do You The Back
Of Your Radios
Are Messy?**

**How Would You
Like To Trace An
Intermittent In
This Mess?**

- A distraught senior citizen phoned her doctor's office. 'Is it true,' she wanted to know, 'that the medication you prescribed has to be taken for the rest of my life?' 'Yes, I'm afraid so,' the doctor told her. There was a moment of silence before the senior lady replied, 'I'm wondering then, just how serious my condition is, because this prescription is marked 'NO REFILLS'.'
- **Aging:** Eventually you will reach a point when you stop lying about your age and start bragging about it.
- The older we get, the fewer things seem worth waiting in line for.
- When you are dissatisfied and would like to return to your youth, remember Geometry.
- You know you are getting old when everything either dries up or leaks.
- First you forget names, then you forget faces. Then you forget to pull up your zipper. It's worse when you forget to pull it down!
- Ah, being young is beautiful, but being old is comfortable.
- One of the many things no one tells you about aging is that it is such a nice change from being young.

Are you looking to upgrade your license?

Give our VE Exam Team a call.

See Ed Gillespie, AB7EM at #453-7412

FOR SALE/TRADE

MFJ-616 Speech Intelligibility Enhancer - Recently serviced by MFJ. Like new condition. With manual and shipping box. \$130

Kenwood TS-50 Transceiver –10 through 160 meters. 100 watts. With mobile bracket, manual and shipping box. Excellent condition. \$450

MFJ - 941E Antenna Turner –300 watts. 10-160 meters. Excellent condition with manual and shipping box. \$90

Hugh Allen, WB6TQP, Phone #453.8659, Lake Havasu City, AZ

Two old guys are pushing their carts around Wal-Mart when they collide.

The first old guy says to the second guy, 'Sorry about that. I'm looking for my wife, and I guess I wasn't paying attention to where I was going.'

The second old guy says, 'That's OK, it's a coincidence. I'm looking for my wife, too. I can't find her and I'm getting a little desperate.'

The first old guy says, 'Well, maybe I can help you find her. What does she look like?'

' The second old guy says, 'Well, she is 27 yrs old, tall, with red hair, blue eyes, long legs, and is wearing short shorts. What does your wife look like?'

To which the first old guy says, 'Doesn't matter, --- let's look for yours.'

LBARA OFFICERS AND DIRECTORS

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Dick Jernigan	Director (2 YR)
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Russ Nyblom	Sgt-at-Arms
Ed Gillespie	Web Master
Jerry France	Static Editor

VISIT OUR WEBSITE

www.lbara.net

FROM THE EDITOR

If you have anything you would like to see included in these issues, please let me know. I'm always looking for articles, news items, construction articles, or anything that might be of interest to our readers. You can contact me at 928.855.7941 or email at grf@unedspeed.net or francej@ajsinsurance.com.

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STATIC

ATTENTION READERS

Please note that this issue represents a “work-in-progress” and there are a number of changes to be made in subsequent issues. I would greatly appreciate your comments, both good and bad, as well as any suggestions for future issues. This issue also begins our first attempt to deliver the **STATIC** to your doorstep electronically. Please keep me abreast of any email address changes you may have and I promise to have this delivered promptly and accurately. Also, I still have a number of articles awaiting publication and will do so in the future. This is your newsletter, so keep the articles, letters, and pictures coming. I can be reached at home (855.7941), at work (855.3081) or via email at grf@uneedspeed.net .

EQUIPMENT FOR SALE

EDITOR’S NOTE: List your items for sale here. Ham radio related only, please. Include a picture if you like (please use a jpg format). Email all to me at grf@uneedspeed.net) along with your name and phone number.

