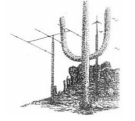


THE COMMUNICATOR



Volume 7, Issue 05

May 2007

Arizona Emergency Communications Preservation Act HB 2595

(Editor's note: This is activity from the last legislative session.)

This bill is in the Arizona State Legislature now. It will put into State Law the FCC preemption known as PRB1, which requires Cities and Counties to make "reasonable accommodation" for Amateur Radio antennas and structures. The reason this bill is especially important is because it extends "reasonable accommodation" to HOA's and CCR's. We also are asking for a wavier of the Ham Radio "special plate" or "vanity plate" fee.

(Editor's note: During March - on a bipartisan vote of 56 YES and only 2 No the bill passed the House.)

HB 2595 was assigned to the Government Committee in the Senate. Chairman Harper is worried about Sun City HOA people.

(Editor's note: The following letter sent from Dan Brown, NA7DB, providing information to committee chairman.)

Dear Chairman Harper,

There are approx. 17,000 homes in Sun City West. Our figures show that only one in 3,000 will want a tower structure that is causing your concern. That means that there may be some 5 or 6 requests for that kind of structure in Sun City West.

The majority of Emergency Communication operators equal one in 400. There desire is to have a small 3 foot to 6 foot thin whip antenna attached

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W7ASC ADAW Column

Myron Cohn, W9EUZ, SK. A long time volunteer at W7ASC, Myron passed away last Thursday, March 8th. He was a regular volunteer on Monday mornings at the Science Center. Myron had a stroke last September and was unable to make it to the Science Center. He wanted to be kept on the list of volunteers "to keep his toe in the water". He will be missed by those who knew him and worked with him. The funeral was at the Sinai Funeral Home, 4538 N. 16th St., 602 248 0030, on Tuesday, March 13th, at 11:30 AM followed by a service the Veterans National Cemetery on Cave Creek Road. Prayers and condolences from all of the W7ASC volunteers go out to Myron's family.

At long last! The W7ASC satellite station antennas are repaired. Thanks to Ralph KV0R, Tony, KB7AQJ, and TD, N7ISR stopped by the W7ASC shack after the Scottsdale Hamfest to get the antennas aligned and working. With the help of the volunteers in the shack John, KC7KML, Jean, W4CIH, and Joe W0SLL (not wanting to climb up on the roof) Tony and TD got access to the roof and made needed repairs. The Satellite station is now on the air!

We have 10 officially registered students for the Tech classes, now including the new HF Tech privileges on 80, 40, 15, and 10 meters. Due to a bit of a cold the 3rd class has been postponed to March 24th. Also a reminder for those interested in upgrading to General, the license class will start at the AZ Science Center July 14th in Boardroom "A". The class will be for 7 Saturdays. NO Morse Code. If you are interested give me a call at the number below. Look for info and flyers at HRO. The next Tech class is planned to start at MCC in October 2007.

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most likely to their home. They would use nothing larger than the old radio shack style TV looking antenna. Hardly noticeable. They may get 40 to 45 of these requests out of 17,000 homes.

In Sun City there are 27,000 homes. Again the tower structure requests may be some 8 to 10 requests. The majority of operators would want a small antenna as per above and they may total up to 70 requests out of 27,000 homes.

One of the Sun City communities allows towers. And there are not that many there.

Small satellite dishes are more visible than what most Emergency operators would want. It is a small request given the great deal of service we provide.

If you could see the size of what we are actually talking about you would not be concerned, especially now that you know the numbers associated with our request.

Sincerely,
Dan Brown
Mayor
City of Page

(Editor's note: Chairman Harper killed the bill. The following is an open letter from one of our club members the chairman's response)

Dear Senator Harper:

I am sorry that you took it on yourself to refuse to let "The Emergency Communications Preservation Act," House Bill 2595 (HB 2595) out into the Senate for debate. The State House of Representatives passed the bill overwhelmingly. I guess you do not trust their actions nor do you trust your fellow Senators in this matter. As a taxpayer and voter, I view your response as the epitome of arrogance! One of the really big problems with representative government today is Chairmen like yourself who take it on themselves to decide what will or will not be heard by all of our elected representatives who speak for the whole State and not just your personal agenda and the interest of your District.

The bill simply asks for "reasonable" accommodations - not 40 foot towers as you were quoted as saying when asked about your unilateral action. Various cities have negotiated a height - for instance Tempe allows towers at 35 feet. It is not for you alone to decide, it should be up to the HOAs, the Hams, and the community members to negotiate for something more reasonable than "NO!" Not all Hams use towers nor can they afford towers. Your individual and selfish action prevents those of us who don't use towers from even having the use of simple vertical or dipole antennas which are readily masked from view.

You don't seem to grasp the need or the nature of what we do. For instance, a Ham friend of mine in Tempe was able to receive and forward emergency traffic that affect the health and welfare of individuals in Louisiana after hurricane Katrina because he is allowed antennas and a modest tower where I am not. Signals can skip differently, and a signal I might be able to receive might not be receivable by a Ham a few miles away. There is no way to know what life saving communication might be missed just because we can't have a reasonable antenna. Just because not everyone likes them doesn't mean they aren't needed! (It's funny - how I can stand in my back yard and see all sorts of things sticking up on neighbors houses that are not particularly ascetic. (The neighbor directly behind me has 2 satellite dishes, a microwave antenna, solar water heater, air conditioner, swamp cooler, and a tall chimney. The only reason he can have the satellite dishes and microwave antenna is because the FCC had to come down on HOAs to keep them from blocking communications that are nothing more than recreation, yet you can't even let the Senate debate a bill to enabling better emergency communications essential to this post 911 world! His solar water heating unit is not used. With our air pollution, his chimney and fireplace can't be used at certain times and is basically a nice "frill.")

Twenty-three other States have deemed this issue important enough to pass such bills in order to

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make such communication possible. Ham radio isn't CB radio. We are trained in emergency communications set-up, deploying communications networks free from the usual networks that usually are destroyed in a disaster and emergency, and can maintaining the needed equipment. (All for free with all equipment supplied by us!) Many of us have taken Federally funded emergency communications training after 911. (I have.) We practice with various emergency response groups. We have working agreements to supply such communications with the Red Cross, Homeland Security, FEMA, The Palo Verde Power Plant, Civil Defense, The Salvation Army, the Military MARS network, and the hospitals around our State. (This month there will be a disaster preparedness drill Valley-wide with our hospitals.) I personally have participated in Maricopa County Emergency Communications training. Every year we participate in "Field Day" where we set up under emergency conditions, away from home, and on non-commercial power.

I would gladly give you copies of local T.V. coverage of Hams in emergency communications action. (Remember the Rodeo-Chedeski fire?) I would also like to send you a copy of the video "Amateur Radio Today" narrated by Walter Cronkite. It is quite enlightening. I'm even willing to give you the CD we pass out to teachers who come to our W7ASC Ham Shack at the Arizona Science Center which is full of articles, presentations, and videos on Ham Radio and its important role in our society. We'd even enjoy educating you if you came by the shack at the Science Center.

I hope you will reconsider your action and allow "The Emergency Communications Preservation Act," House Bill 2595 (HB 2595) to have an open hearing in the Senate. I would find it much more acceptable if the majority of the Senators ruled on this bill instead of just you as an individual. That's what we elected you to do.

Yours,
John F. O'Neal, Jr.
1347 W. Laguna Azul Ave.
Mesa, Arizona 85202-6606
480.345.7800
jfdtoneal@cox.net
KC7KML

From: Jack Harper [mailto:jharper@azleg.gov]

Sent: Friday, April 13, 2007 20:42

To: John & Dottie O'Neal

Subject: RE: An Open Letter to State Senator Jack Harper on The Emergency Communications Preservation Act," House Bill 2595 (HB 2595)

[I offered to negotiate the height limits for the bill. The arrogance was telling me to hear the bill without changes. Next time, learn to compromise. You can accomplish goals in increments.](#)

(Editor's note: Next year we need to pool ALL our efforts to get this legislation passed.)

HB 2595 Amateur Radio Emergency Communications Act

(Editor's note: Email received April 30, 2007.)

Ladies & Gentlemen,

We were unable to "pull a rabbit out of the hat". Thought we may have a chance to attach our bill to another but that did not work out. We need to thank all the Representatives in the House who supported our bill in such a bipartisan manner. They understood and appreciated the value of what Amateur Radio Emergency operators do for their communities and the State of Arizona.

Unfortunately we hit a major roadblock with a Senate committee chairman. But we will return next January to work on getting the job done and passing a bill that will strengthen Amateur Radio in Arizona. This fall we will have our Emergency Communications Preservation Act introduced in both the House and Senate at the same time. This will make it so that we do not get caught in a time crunch and have time to place the bill with committees that are favorable.

Please send out thank you's to all your Representatives and Senators. Let them know that we will be back next January to once again ask for their support.

My sincere thanks to everyone who took the time to email and call their Representatives and Senators. When we return in January it will be easier because of your calls and emails. We know we have a lot of support and we can build on that.

Many thanks to John Lanza, KC7IM, of ARCA, Ingo Radicke, WA7KUM, former Rep. Ted Downing, Tom Fagan of the ARRL, Rod O'Conner, and those of you who showed up to the Committee meetings and to help lobby. "Those who govern, are those who show up".

Best Wishes,
Dan Brown NA7DB

School contact with Arizona Science Center

On Terry Cross, NK7T's first day on the job as volunteer at W7ASC, the Centers for Amateur Radio Learning ham station at the Arizona Science Center, Mr. Werner's fifth grade class at Hermosa Vista Elementary School had a chance to ask questions over the radio of Terry.

it was Monday, April 23.

Mr Werner is Jan, KA7ISV, who ran two meters from his classroom over the 147.12 repeater in communication with W7ASC.

There are 32 students in Jan's class, and each was assigned a number from 1 to 32. Terry started out with number 32, and that student came forward and asked a question about the Science Center, which Terry answered.

Then Terry took number 1, and followed with a few numbers from the middle.

The radio contact ran for about an hour, and then it was time for recess.

The questioning covered amateur radio topics, including Morse code, and Science Center exhibits, though Terry hasn't had much chance to become well-grounded in that area yet.

During the questioning, Bil, K1ATV [that's Bil with one L] came in and introduced the kids to the topic of ham TV as another part of ham radio.

When all was said and done, not everyone in the class had a chance to speak on the radio, but a future event will surely be scheduled to allow more student participation.

Perhaps Terry or Jan can fill you in more on the details for an article in the newsletter.

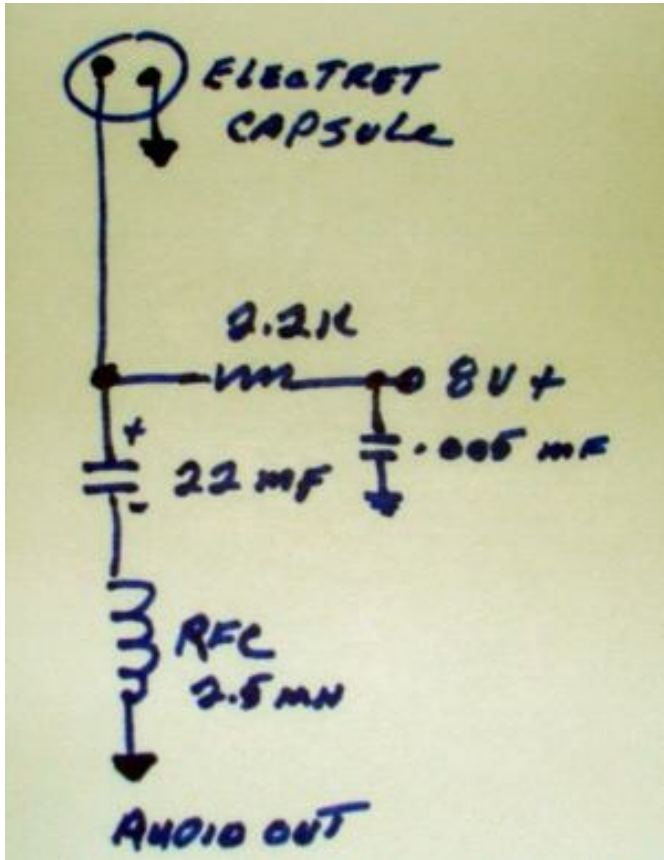
Terry is nk7t@cox.net, but I can't say where Jan has email.

Larry
WB7CRK

D-104 modification

A friend of mine sent this to me. I know a lot of folks like the D-104 Mic but want to get better audio from it.
Here's how.

Steve, KY7W



Friday, April 20, 2007 6:12 PM

I have installed an electret mic capsule in the D-104 head...since the old crystal cartridge sounded bad with my TS-940...

I added the .005 mf discap across the 8 vdc + lead to ground...and the 2.5 mh RF choke in the audio output lead to the shielded mic cable.... to choke out any RF...and everything is mounted on a

terminal strip in the D-104 base...which makes it easy to install...

My TS-940 supplies +8 vdc on one of the mic jack pins to power electret mikes. The 2.2 K dropping resistor drops the capsule operating voltage down to around 1.5 volts...and in this circuit it works very well. The 22 mf audio coupling cap gives a good audio balance in highs and lows...but you can experiment with the value to get different results...please note in this circuit it looks like the RF choke is grounded at one end...it is actually connected to the center lead of the shielded audio mike lead...

As you know... the electret mic capsules can usually be found at Radio Shack for around \$1.00 or so...this was a very worthwhile modification of the D-104 which was just sitting idle...gathering dust...

A Look into the Past

I recently was going through some of the class material used when I took an Electronics course at a Colo. Jr. College. The time was in the late 1950's. I thought perhaps I might submit just a few of the many items of the visual method, and the also the audible method of communication for the club news letter. The U.S. Signal Corps modernized the visual means by the use of the following:

WIGWAG - the use of one flag and the operator moves it briskly in a to-and-fro motion according to the Morse code, shifting it to the left side for a dash and to the right for a dot.

SEMAPHORE SYSTEM - Two flags are quickly shifted from one position to another, each position of the two flags representing a letter of the alphabet, a number, or some other signal.

HELIOGRAPH - A means of flashing a light on and off for definite periods of time to represent the Morse code. A long interval being a dash and the short one a dot. These three forms of communication in more sophisticated form are in use today. I could go on and on with the visual method, however there is only so much space in the news letter.

The audible means of communication has grown in leaps and bounds over the years but the big moment probably belongs to Samuel F. B. Morse the inventor and developer of Telegraphy. This method is by wires connecting the sending and receiving apparatus. Morse also invented the sounds in different combinations to represent numbers and letters at different intervals. The Morse code is now transmitted and received according to the idea he developed.

The Telephone - Alexander Graham Bell.
Where would we be without it today world wide?

Let us not forget wireless for the benefit of hams. The name Gugliehmo Marconi probably would be the first wireless communicator when in 1899 sent the first wireless communication between

France and England across the English Channel. On Dec. 12, 1901 Marconi received the first wireless message A telegraph message transmitted across the Atlantic ocean. The signal consisted of the letter "S", represented in Morse code represented by three dots. This message was from Cornwall in England to St. John's Newfoundland. Get this a vertical antenna was used held aloft by a kite.

I do not believe it would be appropriate to close this out without the mention of the vacuum tube. J.A. Fleming of England learned of the Edison effect and in 1896 developed the Fleming valve. In 1906 Dr. Lee De Forest added an electrode called the grid, and we had a vacuum tube.

There are many many more items and parts and pieces plus many more people who had a big part in our communicating world. I have only touched a small part of the spectrum and appreciate being a part of ham radio.

Respectfully submitted:

Herman Doty
KE7H ST

MEETING HOUSE

The Superstition Amateur Radio Club Meets at the Mesa Community College, at Southern and Dobson in Mesa.

Our meeting room is in the basement of the Clock Tower, center of Campus.

CALENDAR OF EVENTS

BOARD MEETING

PLACE: VILLAGE INN
POWER ROAD AND MAIN STREETS IN MESA
TIME: 6:30 PM, SECOND TUESDAY OF THE MONTH
DATE: 8 MAY 2007

GENERAL MEETING

PLACE: MESA COMMUNITY COLLEGE AT SOUTHERN AND
DOBSON STREETS
ROOM:
TIME: 7 PM, THIRD TUESDAY OF THE MONTH
DATE: 15 MAY 2007

VE TESTING

PLACE: MESA UTILITIES OFFICE, 640 NORTH MESA DR.
TIME: 6:00 PM, THIRD MONDAY OF THE MONTH
DATE: 21 MAY 2007

FUTURE MEETING LOCATIONS

2007 OFFICERS

President: Brian Romine, KC5CAY
Cell:
Email:
Vice Pres.: Mary Simmonds, KD7ZBC
Secretary: Jonathan Simmonds, KD7VCF
Treasurer: Gene Wilson, WA8TSG

Directors: Terry Cross, NK7T
Harold Newman, KD7VK
Jeff Kokovitch, AD7GK
Judy Ferrara, K7JLF
Larry , D7GL
Ray Moore, K7RAM
Rob Stewart, KE7GEL

COMMITTEES

Amateur Radio Council of Arizona

Delegate:
Alternate: Myrna Cross, KN7M

Membership Committee

Chmn: Dianne Hoffman, KD7DJE

Web Site Management

Chmn: Larry Kuck, WB7CRK
480-986-2298
Please see <http://wb7tjd.org>

Technical Committee

Chmn Brian Romine, KC5CAY

Communicator

Editor: Rod Bevill, K7RLB
480-839-0057
K7RLB@cox.net

Net Control Station

Wednesdays: KG7FA, John
147.12 MHz Repeater at 8:00 PM
Thursdays: (Various)
14.265 MHz at 7:30 PM

Amateur Radio Newslines both nights: Provided by the net host

Classifieds

This space available for advertising items for sell or items wanted to purchase. Also advertise your expertise or the need for help in solving problems. This is limited to Amateur Radio needs.

Complete Ham Station

Kenwood TS 570D 100 watts
Kenwood PS40 Switching Power supply
Kenwood SP2 matching speaker
Yaesu YS60 SWR/Power meter
Low pass filter
Kenwood MC80 Matching Mic
Cushcraft R7000 7 Band Vertical antenna/
needs to be dismantled
RG8 Coax 2 75ft lengths
4 band trap dipole antenna needs to be
dismantled

Tom Folkman K7YQI
1125 E. Malibu Dr
Tempe Az 85282
480-838-1704
Email: amberfo@cox.net

Johnson Viking Challenger

For Sale
Classic
Johnson Viking Challenger
80 - 6 Meter AM CW Transmitter
Working 120 Watts with Manual
Clean
Asking \$ 100 dollars or best offer.
Dan wd8pcu@msn.com

Classifieds

Palomar Engineers R-X Noise Bridge

This piece of equipment runs off a 9 volt battery, and connects between the receiver and an unknown load, such as an antenna. Has input and output SO-239 co-ax connectors, and two knobs on the front panel for X_L and X_C , for one and impedance in ohms for the other.

Tune your receiver to the desired frequency, while connected through the Noise Bridge to the antenna, switch the bridge on, and set its controls for the lowest noise. It helps to switch off the AGC, if possible, or set RF gain back to raise the S meter upscale,

Read the dials on the front panel, and you have an idea of what the impedance is, and whether it is inductive or capacitive.

Have a coaxial cable with a bad end but you don't know which end is bad? Connect it to the unknown jack on the noise bridge, set the dials for minimum noise and jiggle the attached end. Disconnect, switch ends and connect, and test again. When you hear a wildly erratic change in the noise, you know you have identified the bad end.

A new one costs \$100 or so. Sixteen page manual. Asking **\$35.00**

Contact Larry, WB7CRK at crk@us60.us.

Cushcraft 220 MHz antenna

Cushcraft 220MHz vertical antenna\$70.00

E-mail Terry at nk7t@cox.net for more informatioun.

Classifieds

Mosley TA53M HF Beam

Used **Mosley TA53M 4-element beam** covers 20, 17, 15, 12, 10 meters.

Has 3 active elements on each band.

This is a spare antenna that I bought in case my original needed work, but it has been in service for 10 years without problems. Interestingly, mine also tunes on 6 meters with the auto antenna tuner in my TS-2000.

The spare antenna was in service for two years, primarily on CW, before I bought it. It is already on the ground, partially disassembled. I have all the parts and an instruction manual.

The elements are pretty long, measuring about 14 feet on the boom, so it will require a truck to haul it away.

Asking \$200 for this beam.

Contact Rick, N7KO at rickn7ko@worldnet.att.net

Who We Are

The Communicator is published monthly by the Superstition Amateur Radio Club, Inc. (SARC), and is e-mailed to all club members.

Please notify the editor if you do not receive your newsletter, have a change of address, or have found an error. Please direct all submissions to the editor.

The SARC generally permits reuse of any article in the Communicator as long as the newsletter and the article's author are credited. However, some articles may be copyrighted by the author. Please contact the editor.

Club Repeater: WB7TJD/R
147.120 MHz(+), 162.2 Hz PL
449.60 MHz(-), 100.0 PL
Club Web Site: www.wb7tjd.org

W7ASC ADAW Column (continued)

We continue to need volunteers for W7ASC! Spread the word at your Ham Club. Call Bob at 480-961-1109 and volunteer now. A Volunteer sign-up page is available at www.w7asc.org

-73 de KG7QJ Bob B.
kg7qj@cox.net 480-961-1109

Meeting Minutes

No board meeting minutes provided.

No club meeting minutes provided.