Delaware - Lehigh Amateur Radio Club, Inc.

W3OK Corral NEWSLETTER

JULY 2002

Meeting July 11, 2002

The Buddipole

by Lamar, N3AT

Unusual Antennas A little more then a year ago, after I moved into my apartment, I was told that I would not be allowed to put up an antenna outside my apartment.

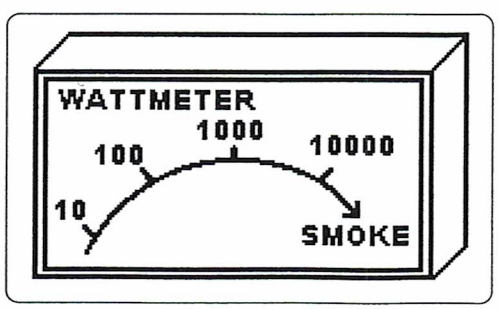
So I began a search that has proved very interesting to me, looking for some way to overcome that obstacle to my enjoyment of Ham radio. As a result, I have come across many interesting ideas from a variety of sources, until I finally found a way to get around the problem.

There are many unusual antennas that have been designed by Hams with creative minds.

At the Delaware_Lehigh Amateur Radio Club July 11th meeting I would like to share some of the information about unusual antennas that I have found in my search.

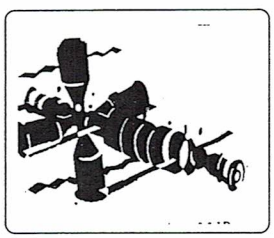
Included in my presentation will be an audio tape of a QSO between the inventor of the **"BUDDIPOLE"** antenna in California and a hard-to-convince ham in Norway. I think you will find that quite interesting.

by: N3AT Lamar



ISS Expedition 5 crew chief active on air

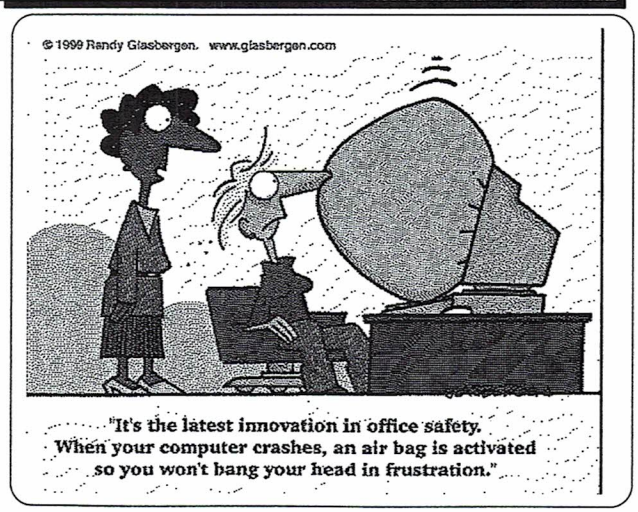
Stan Vandiver, W4SV, in Indiana, reports he worked International Space Station Expedition 5 Crew Commander Valeri Korzun June 10 on 2 meters at 0222 UTC.



"He was using call sign **RS0ISS**, and he complimented my Russian!" said Vandiver, who sprinkled a few Russian words into his exchange. "I hope this is a sign of things to come for this crew!" Vandiver said Korzun worked some other stations before his contact, which he recorded and posted on his Web site

< http://stan.vandiver.com/space.html>.

The ARRL Letter



Just the Minutes

by Jill N3ZSR

President Jeff Keller, N3QZT called the June 6th club meeting to order at 7:31 PM, with 33 members and 4 guests present.



A motion to approve the May minutes was made by Bill, N2DH with a 2nd by Bob, KE3AW. Motion passed.

The Treasurer's Report shown elsewhere in this newletter was accepted with a motion from John, WX3C with a 2nd by Bryan, AA3WM.

Barry, N3NVA said that there have been no changes. He is waiting for more fiber-line to be installed by Service Electric. He reminded committee chair people to keep Clarence and himself informed for the web page and newsletter. He also stated the Barry, KU3X built and donated a new antenna for the club station.

Our new phone service from Service Electric at the repeater site will go into effect on June 19th.

Bryan, AA3WM reminded everyone about field day for Benjamin, KB3GOU in his absence. Field Day will be June 22 and 23, at Plainfield Farmers Grove, on Route 191. He stated that he would have sign-up sheets available during the program.

Charlie, N3VUO reported the Lehigh River Run would be on July 21st. He needs 10 people. They will need to start at about 6 a.m. and should be done by 11:15 a.m. The D.I.D. will also be on that day starting at about 11 a.m.

The VE Session for June had 4 people sign-up to test so far. Bill, N2DH has 2 VE's plus himself for the evening. Bill also stated that there would not be any VE sessions in July or August.

Jeff welcomed the following guests to our meeting: **Susan - KB3IDW Francis - KB3IDX David - KB3IWC William - KB3IDR**

The following new member was voted in: **Pat - KB3IDQ** on a motion from Bob, KB3CSS with a 2nd by Glenn, N3ULW. Motion passed.

The following new applications were read to voted in during our July meeting: **Jim - WA2ZGO (reinstatement) Susan - KB3IDW Francis - KB3IDX David - KB3IWC William - KB3IDR**

The evening program was for field day preparation. Presented by Bryan, AA3WM.

July Meeting will be on **Thursday July 11th**, due to the 4th of July holiday. There will be no VE session in July.

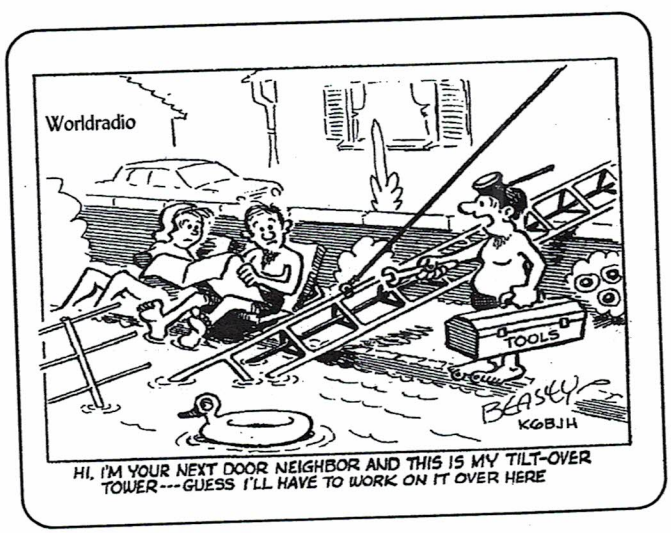
The meeting was adjourned at 8:00 PM on a motion from Dave, N3EYT and 2nd by Dick, KA3MOU.

Jill, N3ZSR, Secretary

Delaware-Lehigh Amateur Radio Club Inc. Income & Loss Statement

Balance 4/30/02		**$6,046.56**
INCOME		
Donation Income 50 - 50	$ 27.50	
Interest Checking	10.56	
TOTAL INCOME		**$38.06**
EXPENSES		
Equipment 6 Meter Filters	$150.00	
Field Day Plainfield Township	125.00	
Insurance Equipment	146.00	
Newsletters for May	92.75	
Postage	65.00	
Supplies	50.76	
Telephone	30.97	
TOTAL EXPENSES		**$660.48**
Balance 5/31/02		**$5,424.14**

de Dick, KA3MOU, Treasurer



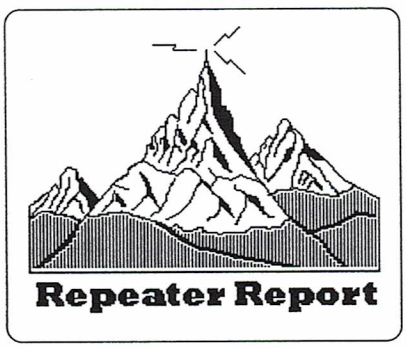
" PL Access Is Here "

ARCC Policy on Access Control

May 2002

submitted by Barry, N3NVA

ARCC has been reviewing its policy on access control. Access control is a means by which received signals are in some way authenticated or validated, such as by the use of a subaudible tone (CTCSS, otherwise known as PL), a digital code (such as DCS or DPL), or DTMF (touch tones). A common use of access control is a PL decoder on a repeater receiver. Because access control mechanisms have the significant benefit of minimizing annoyance key-ups by filtering out extraneous input signals from interference sources or from users of distant co-channel repeaters, ARCC has always recommended PL or other means of access control for all repeater and auxiliary link receivers.



In recent years, many coordination councils have adopted "mandatory PL" policies, requiring all repeaters to utilize PL on their receivers. ARCC has been considering enacting a similar policy. This was discussed again at the most recent ARCC Executive Board Meeting. A motion was made, seconded, and passed unanimously that requires that:

All new coordinated operations will require a means of access control on the receiver which shall be used at all times.

All modifications to existing coordinations that currently do not have a means of access control will require such access control be added as a condition to the approval of the modification.

All repeater and auxiliary links that are currently coordinated for carrier squelch access must coordinate a means of access control within the next three years in order to maintain coordination. It is a common misconception that repeaters that utilize PL or another means of access control are "closed" repeaters. This is not the case. A closed repeater is one which is intended to be used only by a select group of users, typically dues-paying members of the club that sponsors the repeater, or in some cases, close friends of the repeater owner. It is perfectly legal to restrict access to a repeater to only certain individuals (47 CFR 97.205(e)), and using a closed repeater without the permission of the trustee is a violation of "good amateur practice" and may result in FCC action as has happened in several cases over the last few years. Sometimes PL or another means of access control is used to discourage unauthorized users from using a closed repeater, but that does not mean that all repeaters that use a means of access control are closed. The converse is also true - Part 97 does not require that a closed repeater have a means of access control. "Closing" a repeater is a policy decision, not a technical implementation. The majority of all repeaters (71%) and auxiliary links (80%) coordinated by ARCC already use PL or another means of access control. In contrast, of all of the repeaters coordinated by ARCC, only 5% are closed.

Some argue that by utilizing a PL tone that users with older-vintage radios that either lack PL or are equipped with an encoder that can only generate one particular tone will be unable to use the repeater. At this point in time, more than twenty years since PL-capable amateur radios became the norm, this argument applies to a very small minority of the repeater user population. In addition, a PL encoder board can be added to virtually any radio, further diluting the validity of this argument.

In addition, many repeater controllers can be programmed such that a touch-tone (DTMF) command can be sent by a user of a PL-incapable radio to put the repeater into carrier squelch access mode for a limited duration in time to allow them to communicate. However, it is imperative that the repeater revert to its coordinated mode of access control automatically once activity has ended, for otherwise, the whole purpose of access control is defeated.

In many areas, repeater sponsors have standardized on a common PL tone. For example, in the Philadelphia metropolitan area, PL 3B (131.8 Hz) is very common. In northern New Jersey, PL 4A (141.3) is prevalent. Utilizing one of these "regional" PL tones has both pros and cons. On the upside, it makes operating local repeaters easier for the users if all repeaters in a given area have the same tone. The problem, however, is that with multiple repeaters in close proximity utilizing the same tone, intermodulation (frequently called "mixing" or "intermod") that involves a transmitter which encodes a PL tone that is the same as the effected receiver is programmed to decode results in

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that PL tone being decoded, thus defeating the purpose of using PL as a means of minimizing interference. As such, there is an argument to be made in having repeaters in close proximity use varied PL tones to avoid such a situation.

ARCC requires that a repeater not utilize the same PL tone as any other co-channel or adjacent-channel repeaters on record in order to minimize interference from distant repeaters' users. In addition, ARCC may recommend (or sometimes require, depending on the specifics of the operation) that a new repeater in proximity to other repeaters use a PL tone that is not the same as any of the other nearby repeaters to minimize intermodulation-related problems. In all but the most extreme cases of intermod mixes, however, appropriate RF filtering techniques (filter cavities, isolators, etc.) can be used to eliminate mixes, so for those who wish to opt for a regionally-accepted PL tone for their operation, provided there are no other co-channel users of the PL tone in question, intermodulation problems can be resolved at the RF level rather than relying on PL as a means of hiding the problem.

ARCC asks that the holders of coordination for any repeater or auxiliary link coordinated for carrier squelch operation begin thinking about implementing a means of access control. The three-year timeframe for migrating all carrier squelch operations to some form of access control should give all affected parties more than adequate time to do so. We thank you for your cooperation.

Colorado · Fires Keep Hams Hopping

via ARRL Bulletin

Colorado ARRL Section Manager Jeff Ryan, K0RM, says Amateur Radio Emergency Service (ARES) volunteers no sooner wrapped up their support of efforts to deal with one wildfire when another erupted. ARES teams now are helping to support efforts to battle a new fire that got out of control over the weekend.

"No rest for the weary," Ryan said June 10. "As support for the Iron Mountain Fire near Canon City was winding down, a new wildfire erupted near Lake George in the mountains approximately 30 miles west of Colorado Springs." ARES volunteers from Park, Teller, El Paso, Jefferson, Douglas and Elbert counties have responded to support firefighters, law enforcement and the Red Cross, he said.

The latest fire--designated the Hayman Fire--is raging in the Pike National Forest southwest of Denver and now has consumed some 30,000 acres. The fire is being considered very active and very dangerous, Ryan said. It's being fanned by 30 MPH winds, Ryan said.

"Dense smoke from the blaze drifted throughout Front Range cities and towns including Denver, Castle Rock and Colorado Springs and occasionally reduced visibility to less than one-quarter mile," Ryan reported. He said that more than 1000 homes have been evacuated and several thousand more are threatened.

Late last week, Ryan called Amateur Radio support for the Iron Mountain Fire "nothing short of outstanding." More than 1000 residents were evacuated near Canon City in Fremont County, some 100 homes and an additional 100 structures were destroyed.

Members of Fremont County ARES staffed a Red Cross shelter set up to serve the evacuated residents in nearby Cotopaxi as well as the incident command post and the Deer Mountain Fire Station. Hams from Pikes Peak ARES staffed the Red Cross headquarters in Colorado Springs.

For Sale

Icom IC 706 Mark II in excellent shape. Comes with hand mic and what ever else came with it from the factory. The rig is used in my primary station as a second rig and mostly used on 6 meters. The price is $600 plus shipping if needed.

Also have one section of new, never used Rohn 10 foot center section. It is stored inside my garage. Price on that is $75. I will not ship.

You can E mail me at bgkx@juno.com or leave a message at 610-317-9779 anytime.

de Barry, KU3X

Another Successful MS-150

by Jeff, N3QZT

The annual MS-150 Bike Tour took place on June 8 and 9. This fundraising activity for the **Multiple Sclerosis Society** guided more than 700 bicyclists over a 75-mile route from the Velodrome in Trexlertown to Kutztown University and back the next day, with 50-mile, 75-mile, and 100-mile options for riders with lesser or greater expectations. As has been the case for the past several years, members of the **DLARC** and other interested hams provided communications for event vehicles and locations over the entire route.

The net control station, N3KU, was located at Kutztown University. This year's event did have some medical emergencies, but they and all the other traffic that went over the two repeaters used for the event was handled efficiently and courteously by all operators.

Appreciation is extended to the owners and users of the 147.135 repeater in Allentown (W3OI) and the 147.21 repeater in Pottstown (PART) for allowing the use of their machines for more than twelve hours on each of the two days of the event. I want to mention and thank each one of the 30 hams and one non ham that helped with this year's event.

They are: **W3JD, N2BSC, KA1RAH, KB3FIH, WA3ZGL, N3OLH, N3RAD, KA3ONZ, N3RPV, KB3AMY, N3RVH, WF3H, N2ADD, AI3D, N3AT, N3QZR, N3XRL, KR3U, KE3AW, N0KIA, KB3DEC, N3NRB, KB3IDQ, N3NVA, N3ULW, N3ZSR, KB3FDM, N3QZT, AND GREG (son of KB3FIH).**

By the way 31 participants is an all time high number of volunteers for this event and I am very grateful to have all that help.

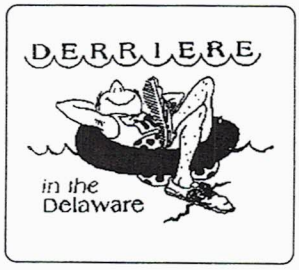
A special thanks to **W3JD** and **N2BSC** for once again getting permission from Kutztown University, to allow us to have the Net Control center on the University. The long hours spent by each volunteer operator were also greatly appreciated by the MS Society staff. Thanks...

de Jeff, N3QZT

Derriere in the Delaware!

by Dick, KA3MOU

It is that time of the year. The Derriere in the Delaware will be **Sunday, July 21, 2002**. I need 10 people for this event. We are the eyes and ears of the float.



You should be at the site by 9:00 AM. The float will be over by 4:00 PM. Notify Dick, KA3MOU or Jeff, N3QZT if you will help with the Derriere in the Delaware. Things you will need for this event: An HT, with spare batteries, water, pencil or pen, paper. We are provided with a lunch. You may want to bring some other things to snack on. Thanks, in advance for signing up for the event.

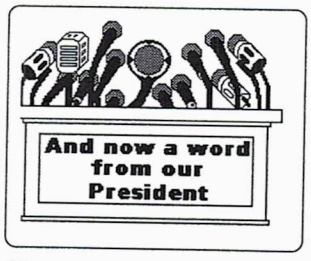
de Dick KA3MOU

Prez Sez

by Jeff, N3QZT

Hello all, Just a short column this month. I would like to ask for your cooperation in a matter concerning the newsletter.

And that is getting articles to the editor / Clarence, for publication on time so he can get the newsletter to the printer and so on.



After some research and much deliberation we (the E –Board) have come up with the following schedule. Clarence must have any article to him by the 10th of the month. This way he will have a little time to finish up editing the newsletter and then get it to the printer by the 15th of the month.

These dates are not negotiable and must be adhered to. The above dates will allow all the people that participate in getting the newsletter out to the membership to do it on time and with out having to rush and make changes to there personal schedules.

The editor, Clarence has the full backing of the E – Board and would appreciate you cooperation in this matter.

de Jeff , N3QZT, President

Red Cross Run

July 21, 2002

A famous American once said, "The Red Cross is the only thing I can think in America that we could not possibly get along without. If the people only knew one half its worth we could raise any sum of money in twenty four hours." The person that said it is Will Rogers.

That is one of the reasons why I am asking for voulunteers for the 12th annual **American Red Cross Lehigh Valley River Relay Run**. The event is on **July 21,2002**. I will need about 10 operators.

The event begins in Canal Park, Allentown and ends in Riverside Park, Easton. Please contact me either by e--mail at **n3vuo@juno.com** or telephone. When you do sign up please tell me your T shirt size.

As in the years past the funds raised go to the disaster relief services to assist families that need assistance after a disaster such as a fire, weather storm etc. Together the American Red Cross and the club can save a life. Thank you for your consideration and time in this matter.

de Charlie N3VUO

Industry assails ARRL's Part 15 stance

An ARRL challenge to the FCC's authority to permit Part 15 unlicensed operation of radio devices that may interfere with licensed services has drawn heavy fire from industry. The list of those filing opposition comments includes several unlicensed device makers and other industry giants, including Apple Computer and Microsoft. Some industry opponents are claiming that the ARRL wants to undo Part 15 altogether and would require individual licensing of such unlicensed devices as garage door openers and cordless telephones. ARRL General Counsel Chris Imlay, W3KD, says the industry commenters have it all wrong.

The industry assault came in direct response to an ARRL Petition for Reconsideration in a proceeding (ET Docket 98-156) to amend Part 15 rules to allow certification of unlicensed, Part 15 equipment in the 24.05 to 24.25 GHz band at field strengths up to 2500 mV/m. The FCC first proposed permitting the 24-GHz Part 15 devices at the elevated field strengths in 1998 in response to a Petition for Rule Making from Sierra Digital Communications.

The ARRL wants the FCC to reverse a portion of its Order that addresses the Commission's jurisdiction to authorize unlicensed RF devices that pose significant interference potential to licensed services. The League has made similar points in two other recent rulemaking proceedings, arguing that the FCC is expanding the concept of unlicensed devices far beyond what the Communications Act ever had in mind.

Citing the "staggering" implications of ARRL's position, opposition comments filed on behalf of Agere Systems, Apple Computer, Bluetooth Special Interest Group, Cisco Systems, Microsoft and VoiceStream Wireless asserted that potentially every user of devices that radiate RF--intentionally or otherwise--"would be required to obtain an individual license from the Commission" if ARRL's position prevails. Part 15 has "a long, accepted and successful history," the commenters said, urging rejection of ARRL's petition.

Comments submitted on behalf of the Institute of Electrical and Electronics Engineers (IEEE) 802 Local and Metropolitan Area Network Standards Committee <http://ieee802.org> echoed a similar refrain. "To 'pull the rug out from under' Part 15, as the ARRL would do, would devastate the industry and do great harm to the users of the technologies that Part 15 has enabled," its comments declared.

In its comments in opposition, the Information Technology Industry Council (ITI) said it did not believe the types of unlicensed devices of concern to ARRL "have significant potential for interference to licensed radio services." Line-of-sight systems using highly directional antennas "should not pose any undue or significant threat to amateur satellite operation," ITI said in supporting their operation and deployment. ITI argued that ARRL was misinterpreting the Communications Act.

ARRL's Imlay says the industry commenters are missing the point and, he adds, responding to arguments that ARRL never made--such as individual licensing of Part 15 devices. "This is a perfect example of where the FCC went too far," he said of the Order issued last December in the 24-GHz proceeding. "There's a threshold. The trick is where to draw the line between licensed and unlicensed devices."

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The League contends the FCC has failed at distinguishing between what should and should not be licensed and, in so doing, has violated the Communications Act.

In its Petition for Reconsideration filed in February, the League said the issue was not whether the FCC has jurisdiction to enact reasonable regulations concerning RF devices. "Rather," the League said, "it is whether or not a device which has substantial interference potential to licensed radio services must be licensed." The ARRL argues that the limit of FCC's jurisdiction is reached when it's concluded that operation of such devices "has a substantial interference potential" to a licensed service.

"Any way you look at it, this ought to be a licensed radio service," Imlay said of the 24-GHz devices at issue. He believes the proceeding provides a good opportunity to test the theory that a license is required for any application that "poses substantial likelihood of interference." Amateurs and Part 15 devices can co-exist on the same spectrum, Imlay says, "provided there are reasonable power levels that, on a whole, do not pose an interference threat."

Imlay says the ARRL will prepare a reply for filing by the June 28 deadline in the proceeding.

Amateur Radio is primary at 24.0 to 24.05 GHz and secondary on the rest of the band.

The ARRL Letter

Missionary killed in rescue effort was an amateur

Martin R. "Ray" Burnham, the US missionary pilot held captive with his wife for more than a year in the Philippines and killed during a military rescue attempt June 7, was an Amateur Radio licensee, **KC0DNB**. Burnham, 42, from Rose Hill, Kansas, near Wichita, held a Technician license issued in 1998.

The circumstances of Burnham's death still are not clear. Burnham's wife, Gracia, was wounded by gunfire but was expected to recover. A Philippine nurse, Ediborah Yap, also died. The Burnhams had been held hostage since May 2001 by Abu Sayyaf, a Muslim extremist group. Several Philippine soldiers and rebels also were said to have died in the rescue attempt.

A native of Wichita, Burnham was a graduate of Calvary Bible College and Wichita Aviation Education Center. He also completed missionary training with New Tribes Mission, with which he'd served for the past 17 years. He was the son of missionary parents who have served in the Philippines since 1969.

The Burnhams have three children, Jeff, 15; Mindy 12, and Zach, 11. For more information, visit the New Tribes Mission Web site http://www.ntm.org>.

The ARRL Letter

June VE Tests

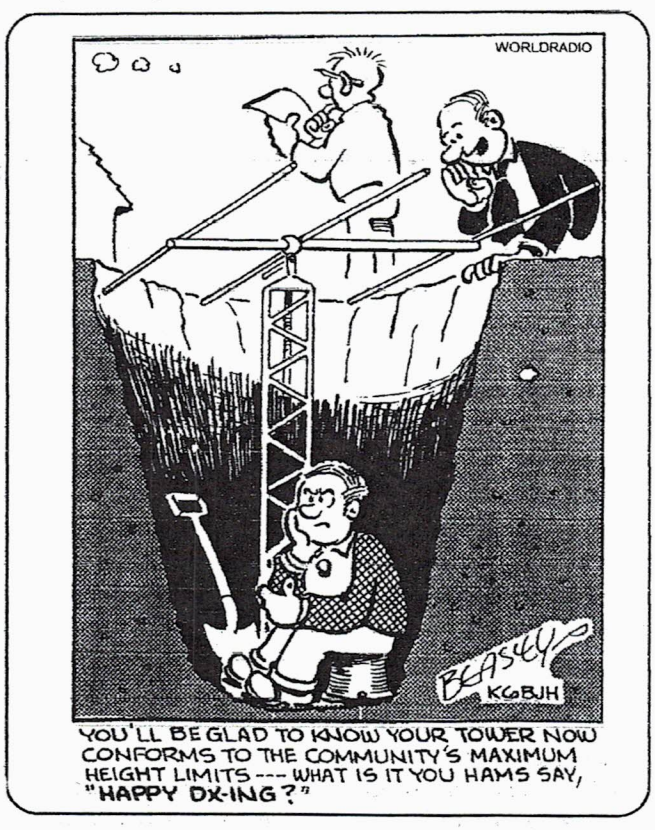
Here is the information from the June VE Test Session held 06/07/2002

VE's in attendance:
Bill, N2DH
Bill, NC3P
Bryan, AA3WM
Dennis, KR3U
Edwin, KB3FPK

There were a total of four applicants taking tests. Results:

Denis Albisser, KA2YYB .. Upgraded to Extra
Robert Culp, KB3IDV...Passed the written General
David Mellman, KA3IWC ... Upgraded to Extra
Jack O'Connell, KB3HDJ .. Upgraded to General

de Thalia KB3CSR



All Amateur Radio Operators are invited to
Participate in the DLARC, RACES & ARES nets
146.70 and 444.90 W3OK/RPT (pl 151.4) with an alternate of W3PYF/RPT 145.11
W3OK trustee Chris Hornaman, NU3L
The Nets are held on Wednesdays at 7:00PM

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The W3OK CORRAL is published monthly and is the Official Publication
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==2001-2002==

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CLUB MEETINGS

All regular meetings of the D.L.A.R.C. are held on the first Thursday of each month
7:30 PM at IU 20 Building in Palmer Township
TALK IN ON 146.70

Any comments or articles contributed to this newsletter
should be addressed to *(w3pyf @aol.com}* or Clarence Snyder, W3PYF Editor.
717 Porter Street, Easton, PA 18042-1548

visit our web page

http://www.dlarc.org

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MEMBERSHIP EXP 12-31-02
ROBERT A GREEN KE3AW
346 CREST DRIVE
WHITEHALL PA 18052-7204

DATED MATERIAL - PLEASE DO NOT DELAY

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