



LETARC PROPAGATION

The official Newsletter of the Longview East Texas Amateur Radio Club



September 2018

Volume 2018-9

Are Baofeng UV-5R Radios Illegal? Another Take on the Story.

By
John Armstrong – KG5LWD

The widely used Baofeng UV-5R radio is one that hundreds of thousands of active amateur radio operators around the US utilize on both the VHF and UHF bands. It is a very inexpensive, yet rugged radio that can be purchased for a song and dance for about \$30 and it offers quite a few features for the money and allows radio operators mobility at a very low cost.

However, if you have kept up with the news on ARRL over the past few months, it has been reported our friends at the Federal Communications Commission issued a Citation Order to Amcrest Industries LLC for the illegal marketing Unauthorized Radio Frequency Devices. This is the company who imports the Baofeng radios into the US. This now begs the questions of what happens now for those of us with these radios? Are radio operators who use these radios going to be fined or thrown in the slammer for using them?

Let's take the questions one step further. Will the federal government show up at our door steps and will they hunt us down like rabid dogs if we use them? The short answer is NO due to the sheer number of them being used and for other reasons discussed below.

Let's go back in time to around 2012 when Amcrest Industries started to import the UV-5R radio into the US. It was at this time the radio had been accepted for Part 90 of the FCC regulations. At that time, the radio was to comply with Part 90 Private Land Mobile Radio Service. And devices that are compliant with Part 90 would include radios that are allowed for business and industry and public safety use. However,



for these radios to receive certification under Part 90. they were required to have specific power limits, could not be programmable from a front panel and have specific frequency ranges.

Then in March 2013, the FCC received a complaint that the UV-5R and other models such as the UV-5RA, and UV-5RE where not compliant with Part 90 of the FCC Rules and Regulations since it was alleged these radios had the capability of transmitting on land mobile frequencies using external controls and operating at power levels above those specified by the equipment authorization.

Now, let's move forward in time to October 2017 after the slow grind of the federal government finally catches up on the complaint. It was at this time the FCC sent Amcrest a Letter of Inquiry that addressed those allegations with subsequent followups in January and February 2018.

Amcrest promptly responded to the inquiry indicating it began marketing the four different models of the radio in June 2013, but stopped selling three of those models a few years ago. Of the UV-5R series of radios, only the UV-5R V2+ is the only radio marketed in the US.

This model of radio is not capable of operating at a power level above its specified equipment authorization. Additionally, Amcrest was instructed by the FCC that all inventory that was on order and in the future would be limited to work on 145-155 MHz and 400-520 MHz.

What does all of this mean to an amateur radio operator who has one of these "illegal" radios?

In short, this heart of this issue deals with radios being granted certification under Part 90 of the FCC regulations. This part of the regulations deals with Private Land Mobile Radio Service where licenses are issued in addition to dealing with power, operating restrictions and specific frequencies equipment can operate on. A Part 90 radio is not allowed to operate on Aviation, Maritime, satellite communications services and military band allocations. However, the UV-5R provides an open door to transmit on frequencies of 136-174 MHz and 400-480 MHz that includes these services; which is a big no, no.

On top of this, the UV-5R has the capability of operating from 1 to 4 watts and the equipment authorization permits operation at no more

that 1.78 watts on authorized (permitted) frequencies. This radio does not comply with that limitation and can broadcast at 4 watts anywhere.

The FCC citation requested that Amcrest Industries LLC to stop marketing the UV-5R V2 until the radio was brought into compliance with Part 90 rules. The UV-5R V2+ rectified this situation.

So, what do radio operators do with UV-5R their radios? Can they be used on amateur radio bands?

Yes, a radio operator may use the UV-5R. Since Part 97 of the FCC rules and regulations governs amateur radio service and do not require a part 90 certified radio to operate on those bands. The Baofeng UV-5RA used on 144-148 MHz on the 2 meter band and 430-450 MHz on the 70 cm bands and not be in violation of FCC rules.



The UV-5R V2+ will not be able to transmit below 145 MHz and this will present some slight problems since 2 meter use won't be available.

On top of this, the UV-5R V2+ will not be able to receive the frequencies between 155 and 174 MHz. This means the radio can not be used as a public safety scanner, railroad scanner, NOAA weather scanner or a receiver. Given these limitations and if you purchased one of these radios, you now have yourself a light boat anchor that can not be used on amateur radio frequencies. Maybe it's time you put this radio in the recycle bin.



The Murky Areas: MURS, FRS and GMRS

This is where things may become a little gray or murky. Part 95 of the FCC rules and regulations govern Multi Use Radio Service (MURS), Family Radio Service (FRS) and General Mobile Radio Service (GMRS). A radio that is certified under Part 90 can be used on the GRMS. However, only a Part 95 radio may be used on FRS and MURS. Will using a non type accepted radio get you into trouble? Most likely not since the FCC does not seem too interested in personal use unless it causes harmful and malicious interference to a licensed radio service. Also, the FCC has limited resources in enforcement personnel to go out and hunt people down people using these radios. The FCC has bigger fish to fry at this time rather than chasing rabbits it will have a difficult time catching.

In summary, you can use your UV-5R radio without any problems provided you stay within the approved Amateur Radio bands. Going outside those band limits may expose you to having some problems with

Big Brother and cost you dearly. Just be prepared to get the check book out.

What Ever Happened to Radio Shack?

By
John Armstrong - KG5LWD

For many years, Radio Shack Stores could be found in just about every mall or shopping center in the US. They were stores where dependable electronic parts could be purchased in locations that were really convenient to all of us and when you needed something really quick to make a repair. These stores often times eliminated our having to place orders through the mail or telephone and then wait for delivery.

In Radio Shack's hay day, the stores were most likely staffed by electronic geeks who could answer your questions about radio equipment and electronic components. One could tell that these individuals seemed to really enjoy their jobs by helping people and selling electronic gear and parts.

Heck, I can even remember when I learned to write basic language computer programs in classes Radio Shack use to offer in their stores on TRS-80 personal computers. Also, Radio Shack's monthly free battery was a good draw to bring in customers.

But in the late 1980s and 1990s, things began to change at Radio Shack. Instead of employing folks who knew something about electronics and could answer questions, the stores were beginning to be staffed with sales clerks who didn't know diddly squat. This was the beginning of the end for Radio Shack.

Then with the advent of "Al Gore's" (tongue in cheek) Internet and the ensuing development of e-commerce, this impacted store sales and brought on a string of bad luck for Radio Shack. Stores all around the nation began to close their doors permanently. And for most of us, we thought Radio Shack had gone the way of the dinosaur after being in business for nearly 97 years. But this isn't the case and the chain still has some stores remaining in business despite filing bankruptcy twice in the last few years. The company is a shell of its former existence and has about 400 or so stores as compared to over 4,400 prior to filing Chapter 11 in 2015.

Today, Radio Shack is trying to make a comeback and they are getting some help from Hobby Town USA. A deal was recently signed between the two businesses where "express stores" will be placed in 50 Hobby Town partner stores. And this deal could expand that presence to 100 stores if things go right and eventually to all 140 Hobby Town locations found throughout the nation.

In July 2018, the first of the express stores started to open. The first of these stores is in Mooresville, NC and will occupy about 500 square

feet of the 6,000 square foot store area. The express store will have Radio Shack signage and be operated by store employees.

As part of this business deal, Hobby Town is to purchase Radio Shack product such as tools, wires, as well as other accessories and offer them to their customers. This appears to be a big win for Hobby Town since the express stores will add name brand products and services to their locations such as cellphone repair which they did not offer in the past. It's a great way for Hobby Town to differentiate itself from other competitors.

As for Radio Shack, the new business deal allows them to increase the physical footprint and not have the worry about the increased cost of rent. When Radio Shack declared bankruptcy, it was left mostly with stores in rural locations. Now, the express stores will bring Radio Shack closer to more densely populated urban areas.

Before this deal with Hobby Town took place, Radio Shack had a similar business arrangement with the cellphone carrier Sprint, where express stores were opened inside Radio Shack locations. However, this business arrangement went kaput and resulted in Radio Shack filing suit against Sprint.

Then earlier this year, Radio Shack eventually emerged from the Chapter 11 filing with its 400 locations. On top of this, it held on to its e-commerce business and a distribution center. It appears the business strategy of Radio Shack focuses less on the brick-and-mortar locations and is now concentrating on dealers who want to handle and sell Radio Shack products.

Perhaps it is a wise move for Radio Shack to partner with other businesses to get its name back into the public. I hope they are successful in their endeavors. I'd like to see Radio Shack make a big come back.

amplifiers stage impedance matching circuit, 50 ohm transmission line and antenna. I will discuss each stage of the antenna system separately.

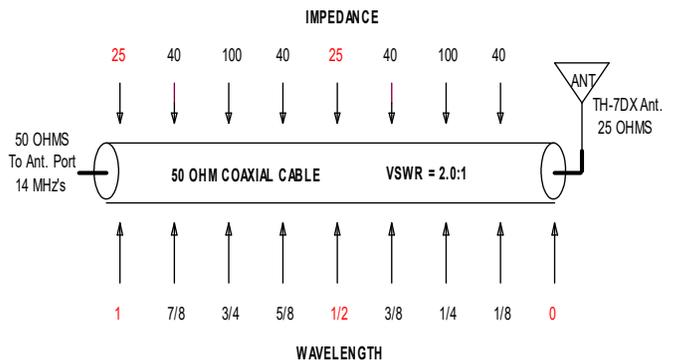
Transmitter Output Matching Circuit: The radio's matching circuit is designed to transform the amplifiers very low output resistance to an impedance of 50 ohms. If the output of the matching circuit sees something other than an impedance of 50 ohms, it acts just like an antenna and reflects the power. If the reflected power exceeds the matching circuits design limits, it can destroy either the matching circuit or amplifier. The radio's protection circuit is designed to prevent this damage from occurring by reducing the amplifiers output power. There's no design standard for this protection level and the impedance level where protection starts varies between radios. Example: The Kenwood TS-430 starts reducing its output power when the antenna port sees an impedance low as 17 ohms or high as 150 ohms, but the Kenwood TS-590 starts reducing power at 33 ohms and 75 ohms.

50Ω Transmission Lines: Checking the specifications of your cable will only show you how much RF energy will be lost due to attenuation. These specifications do not show you what happens when the coaxial cable is not terminated with 50 ohms. The TH-7DX beam antenna has an impedance of 25 ohms at 14 MHz's. The diagram below shows what happens to the impedance values along the coax cable when it's not terminated with 50Ω's.

SWR MEASUREMENTS (Voltage Standing Wave Ratio)

by
Jerry Ritchie – WA5OKO

In the amateur radio world, SWR (VSWR) is the primary measurement instrument used to determine an antennas health. SWR meters are included in linear amplifiers, antenna tuners, antenna analyzers, transceivers and stand-alone meters. In the first few pages of the 2018 MFJ catalog, I counted 57 SWR meters in various devices. To understand the role SWR plays in antenna measurements, you need to have a basic understanding of how the amateur radio antenna system works. The amateur radio antenna system includes the radio's final



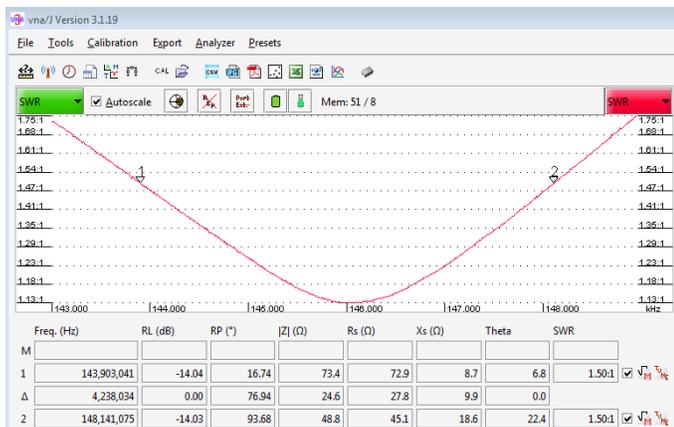
In 1956, Byron Goodman (W1DX) wrote an article for QST called "My feed line Tunes My Antenna".

He cut his feed line to the 50 ohm impedance point. Of course this only works if you are using a single frequency.

Antennas: The antenna has to efficiently transmit electromagnetic RF energy into space. It's the only device in the antenna system that you can adjust. As shown above, the antennas impedance has a great effect on the 50 ohm coax cable and what impedance seen by the radio's antenna port.

SWR Meter Accuracy: SWR meters are the primary measurement instrument used to determine an antennas health. In the first few pages of the 2018 MFJ catalog, I counted 57 devices with SWR meters. Of these 57 meters, the accuracy of any of meters was not included in their literature. SWR meters inherently have accuracy problems because of coupling devices and diodes used in their design have a non-linear response to frequency changes. SWR meters do not include calibration procedures that normalize these non-linear characteristics. Isolation (directivity) between the forward and reflective sampling elements can also be a problem. Meters with poor directivity performance will show different reading when the applied RF power is changed. I have tested a lot of SWR meters and a few are better than ±10% at full scale across their advertised frequency range.

SWR Measurements: Look at the coax cable diagram again, the SWR 2.0:1 value remains the same regardless of meters position in the cable. In a reactive environment, a SWR meter reading cannot be used to determine impedance. In another words, you can't use the SWR meter reading to determine what impedance the radio's antenna port will see. To illustrate this phenomena, I tested my 5/8 2 meter mobile antenna with a Vector Network Analyzer (VNA). Both chart markers were set to a SWR value of 1.50:1. Marker 1 (143.9 MHz) shows that the impedance (Z) is 73.4 Ω and marker 2 (148.1 MHz) impedance value is 48.8 Ω. The VNA was attached to cable end that connects to the radio. At 144 MHz's, the 73.4 ohm value is very close to the protection circuit threshold of my TM-V71 radio, but at 148 MHz's the 48.8 ohms which is an excellent value. Both of these impedance values occurred at a SWR of 1.5:1.



Summary: A transmitter's output matching stage almost never sees a true resistive load (no capacitive or inductive reactance). With an antenna, the absence of reactance only occurs at the antennas resonant frequency and then it's seldom exactly 50 ohms. The 5/8 mobile antenna is a non-resonant antenna, so the matching circuit never sees a true resistive load.

You can use the meters SWR reading to determine minimum and maximum resistance values. An SWR of 2:1 equals to: (50Ω ÷ 2 = 25Ω) (50Ω x 2 = 100Ω). Look at the coax cable diagram again. You just can't tell where these values occur unless you know the 1/2λ positions.

To adjust an antenna, I recommend using any instrument that is capable of measuring the impedance at the cable end that attaches to your radio. The Vector Network Analyzer (VNA) provides the most accurate test results because of its Open, Short, Load (OSL) calibration. Beware of any antenna test analyzer that doesn't require this OSL calibration function. Measuring SWR at VHF and UHF frequencies requires that the SWR meter and cable equal ½ wavelength at your test frequency.

LETARC MEETINGS

City of Longview Fire Training Facility, 411 American Legion Blvd, Longview, TX.

LETARC's monthly meeting held the fourth Saturday of each month at 0900 hrs at the Longview Fire Training Facility at 411 American Legion Boulevard. Talk-in on 147.34 (+136.5). Presentations, free coffee and donuts and friendship!

The VE Sessions have also been moved to the fourth Saturday of each month at LeTourneau University. The time of the day not not changed. It still takes place at 2:00PM.

Minutes of the July 2018 Monthly Meeting Of The Longview/East Texas Amateur Radio Club

The July 2018 monthly meeting of the Longview East Texas Amateur Radio Club was called to order at 9:00 am Saturday, July 29th by President Jim Quinn, AA5CX. Introductions of members and guests were made. The minutes and treasurer's report from the last meeting were read and approved after a motion was made by Jim Rogers, N5VGQ, and seconded by Joe Gimbert AG5FJ.

Our program presenter was Jerry Ritchie. He spoke on Vector Network Analyzers. He demonstrated the VNA he is donating to the club and the computer to operate it. The VNA can be checked out for two weeks at a time through Jim Rogers. Afterwards the business portion of the meeting began after a short refreshment break.

President Jim Quinn, AA5CX, opened up the meeting.

1. Jim Rogers gave us an update on the repeaters. A new Fusion repeater, 147.300, located east of Kilgore, is an individually owned open repeater for our use. Ross Bennett paid for the upgrade out of his own pocket. Anyone can donate money for him to offset his cost. The club repeater, on 444.975, is located at Jim Rogers house pending a better location is found. The analog/digital repeater, 443.975, has a new location and is at Dean Patterson's house. There is a new guy, _____, who has offered to help and be trained to install the new repeater antenna out at East Mountain. He has offered to climb the tower.
2. Ross Bennett gave an update on the website. Jay Rowe will video tape our monthly meetings and have it uploaded on to our website so people who have missed meetings can go and watch the programs online.
3. Our radio room at MIM's VFD is progressing nicely. The projected date for us using the room is October 1st.
4. Jim Quinn reported that Todd Long, the Gregg County Game Warden, will be speaking at the CERT meeting on Thursday, August 23rd, at 6 pm at the Longview Fire Training Center. Anyone is welcomed to come to the meeting. Jim Quinn will look in to recording the meeting and have it uploaded to the LETARC's website.
5. November 10th Tailgate Sale, which will be held at the broadcast museum, is in the planning stage. A committee has formed and is in need of another member. Committee members are: Terry Johnson, Ross Bennett, and Jim Rogers. John Armstrong volunteered to become the 4th committee member.
6. Jim Quinn brought up elections for the following year. We need to vote to change the elections to November so the newly installed board can start in January. John Armstrong spoke on the continuity of the LETARC Board and burnout amongst its members. John asked LETARC members to start thinking about serving on the board now. Every board member talked about their job duties and a paper was handed out to everyone. Also it was suggested to list the job duties on the website. Jim Rogers moved to change the board elections to November with John Armstrong seconding it. The motion passed.

Treasurer's Report for July 28, 2018 to August 25, 2018

Brought forth from the last reporting period: **\$11,001.19**

Income for this period:

Membership Dues (Renewals)	
James Bray (2018)	\$25.00
Rick Hall (2018 & 2019)	\$50.00
Total Income	\$75.00

Expenses for this period:

Donuts for July meeting (Adan)	\$35.25
Yaesu USA (repeater upgrade)	500.00
Best Buy (video camera)	335.54
Intuit (Technician Instructor Book)	33.95
American Radio (Instructor Book)	24.71
Kroger (Gift Card for Fox Hunt)	150.00
Ross Bennett (Domain Renewal Reimbursement)	255.35
Total Expenses	\$1,334.80

Ending Balance (as of June 23, 2018): **\$9,741.39**

EVENTS AND CONTESTS

September 2018

8-10 [September VHF](#)

15-16 [10 GHz & Up – Round 2](#)

29-30 [EME – 2.3 GHz & Up](#)

<http://www.arrl.org/contest-calendar>

REGIONAL CLUBS

Click on underscored name to visit site.

- [Tyler](http://www.tylerarc.org/) <http://www.tylerarc.org/>
- [Nacogdoches](http://w5nac.com/) <http://w5nac.com/>
- [Athens](http://www.athensarc.org/) <http://www.athensarc.org/>
- [Cedar Creek](https://k5ccl.wordpress.com/) <https://k5ccl.wordpress.com/>
- [Marshall](http://marclub.net/) <http://marclub.net/>
- [Minden](http://www.n5rd.org/) <http://www.n5rd.org/>
- [Shreveport \(ARCOS\)](http://www.qsl.net/nw1arn/arcos.htm) <http://www.qsl.net/nw1arn/arcos.htm>
- [Shreveport \(SARA\)](http://www.k5sar.com/) <http://www.k5sar.com/>
- [Rusk County \(Henderson\)](http://www.ruskcountycarc.com/) <http://www.ruskcountycarc.com/>
- Four States (Texarkana) <http://www.4444sarc.org/>
- [Palestine-Anderson County](http://www.pacarc.org/) <http://www.pacarc.org/>
- [Navarro, Freestone, Limestone and Leon County](http://www.nflarc.com/) <http://www.nflarc.com/>
- Panola County (no website)
- LeTourneau University – LUARC (no website)

Other Ham Clubs

Fond du Lac Amateur Radio Club, Fond du Lac, WI
<https://www.fdlhams.com/>

The Rare Ones Of New Orleans

Do a little rag chewing with a group of really nice fellows living in and around the Big Easy on 40 Meters – 7.260 Mhz (+/- 5 kHz) – Most Evenings About 1930-2130 CST.

<https://therareonesofneworleans.loga.us/>.

“The “Rare Ones” of New Orleans was resurrected on February 22, 2017 after much deliberation and thought by nine (9) amateur radio operators in the Greater New Orleans Area. The purpose of the group is to promote the amateur radio HF Communications, the City of New Orleans, and the Audubon Zoo.



The original “Rare Ones” of New Orleans was established in 1965. The current “Rare Ones” are the third generation of this fine group,

and are excited to promote our wonderful City’s unique culture, history and fine traditions. To learn about the History of the “Rare Ones” please click on the following link: [History of the “Rare Ones”](#)

The “Rare Ones” of New Orleans also promotes the Audubon Nature Institute. To show our appreciation for the Zoo, each member of the “Rare Ones” has adopted an animal figure to represent a personal connection with the Audubon Zoo. Of course, if you’ve been to the Zoo, they all asked for you! Well, the “Rare Ones” all ask for you to check in with us on the air waves!

One of the goals in resurrecting the “Rare Ones” of New Orleans is to provide a place where displaced New Orleanians could “pull up a chair” and chat with someone back home. Sharing childhood stories and memories with our displaced friends and family brings a great satisfaction to the “Rare Ones”.

The “Rare Ones” of New Orleans love to tell the story of the City of New Orleans to new comers as well as displaced former New Orleanians. By all means, don’t be a stranger and come by for a spicy taste of New Orleans!”

Upshur-Gregg County Yamboree-ARES

The Upshur-Gregg ARES, facilitated by LETARC, is setting up a radio station on the Yamboree grounds in Upshur County on October 18-20 for three days from which we will conduct VHF and HF communications with a special event call sign. The station will attempt to do three things: Recruit members for LETARC, Introduce ARES to the community it serves, and acquaint visitors with HAM radio. The event is made possible by the efforts of many members of LETARC so it should actually be considered a LETARC public service and recruiting event.

ETX LETARC Tail Gate Sale

This event is co-sponsored by the Regional Amateur Radio Clubs and the **Texas Broadcast Museum**.

When: Saturday, November 10, 2018, 7:00 AM till 12:00 PM

What: Free tailgate sale. Bring all of your new, old, & used amateur radio equipment that you would like to sell. This is an outdoor event and will be held rain or shine. **The Texas Broadcast Museum is planning on having an auction to sell off lots of stuff that are duplicates, triplicates or just not of real interest to the Museum. There will be various old radios, video and audio equipment people will find interesting. Vintage Radio & Phonograph Societies from Dallas and Houston have been invited to attend. Antiuqe and classic cars will be on display. There is a donation to tour the museum: Adults \$6 , Seniors, Military, Students & First Responders \$5, Kids 3-11 \$3 Under 3 free**

A separate flyer on this event will be emailed to LETARC membership and other radio clubs in the East Texas area to foward on to their memberships.

Useful Links

LETARC Web Site

<http://www.letarc.org>

Radio Tools and Utilities for amateur radio operators

<http://www.dxzone.com/catalog/Software/Utilities/>

eHam.net – Product Reviews

<http://www.eham.net/reviews/products/41>

Android Apps – Tools

<https://play.google.com/store/search?q=ham%20radio%20tools&c=apps>

ARRL

<http://www.arrl.org/>

Freedom Link

<http://www.freedom-link.org/>

Testing – Get Upgraded

LETARC is working with LeTourneau University to help with facilities for VE testing. We would like to extend our sincere appreciation to the University for helping facilitate this endeavor.



Directions to LeTourneau Campus

Upon entering the main entrance to the campus, turn right at the stop sign and follow the road around past the Solheim Center parking lot on

the right to the first intersection. The building across the street and to your right is Glaske Center. Turn right and go to the parking lot at the rear of Glaske Center. Enter Glaske Center rear entrance and go to classroom 103.

Now that you know where the place is, why not study a little and upgrade your license. If you have a Technician's license, you can upgrade to the General. And if you pass the General exam, the VE Volunteers will offer you the opportunity on the day of your exam to test for the Extra at no additional cost.

January is membership renewal month. Please complete the form on the following page to renew your membership and mail your check to the address shown at the top of the application. Application on last page.

Testing on the 4th Saturday of each month.
2:00 PM – VE Session at LeTourneau University is located on 2100 S. Mobberly Avenue in Longview, TX in the Glaske Engineering Center, Room C103.

Nominations for 2019 LETARC Officers



WE WANT YOU!

Nominations for the 2019 LETARC Board members will begin in August 2018 and continue though the time club elections are currently held in December 2018 (See **Proposed Amendments to LETARC Constitution**

on Page 8 of this newsletter). As it now stands, current board members are pretty burned out since they have served multiple years since no one else has stepped up to the plate to take over the reigns of the club leadership. Most, if not all board members, have indicated they will no longer be willing to serve in 2019.

LETARC needs folks in the current membership to step up to the plate and take on leadership roles and provide some fresh ideas and a new direction they feel the club needs to go.

See Pages 8 and 9 of this newsletter for form to submit Nominations for 2019 Officers and proposed amendments to LETARC Constitution for electing club officers.

TEXAS QSO PARTY

LETARC RADIO ROOM -Mims VFD

Directions to Mims VFD

1400Z, Sep 29 to 0200Z, Sep 30, 2018 and
1400Z-2000Z, Sep 30, 2018

Texas QSO PARTY LINK

**LOCATION OF TEXS QSO PARTY
SUBJECT TO CHANGE IF RADIO
ROOM CONTRUCTION NOT
COMPLETED.**

Nominations for 2019 Officers

President _____

Vice-President _____

Secretary/Treasurer _____

Media Director _____

Equipment Manager Jim Rogers _____

Nominations for election committee (Up to three people)

You may nominate yourself and do not need to sign this nomination form. The election committee will be appointed by the current board and those appointed will be responsible for talking to the nominees to assure they are willing to hold office. The Longview East Texas Amateur Radio Club can only grow and prosper if we have members who are willing to help it grow. Please consider serving.

NOTICE FOR AMENDING LETARC CONSTITUTION – CONSTITUTIONAL MEETING

Proposed amendments to the LETARC Constitution were presented at the July 27, 2018 LETARC Board Meeting on whether club elections should be moved from December to November in order to increase club participation and give the new slate of officers time to meet and plan for the next year. During the last month of the year, the Christmas Holidays present a problem since the club meeting in December seems to closely coincide near the holiday and interfere with attendance and voting on new officers. The move to a different month such as November for elections would alleviate this issue. This proposed change would require amending LETARC's constitution and notice is hereby being given to the membership of LETARC for that purpose.

As per the LETARC Constitution, proposed constitutional amendments shall be published in two successive issues of the newsletter along with a notice of a constitutional meeting. The constitutional meeting will be held in conjunction with a regular membership meeting in October 2018. The voting members present at such a meeting shall constitute a quorum. A two-thirds majority of the quorum shall be required to pass a proposed amendment.

Proposed Changes to LETARC Constitution: Article 1.2 and Article 1.25

ELECTION OF OFFICERS

- 1.2 Election of officers will be held at the ~~December~~ ~~November~~ meeting. A nominating committee will select candidates to present to the general meeting. Every effort will be made to have at least two candidates for each office. Even if only one is running, a vote will still be required to accept or reject the single candidate. Voting will be by secret ballot, simple majority required.

- 1.25 Ballots shall be MAILED to all members by the end of ~~November~~ ~~October~~ so that any member that can not attend the ~~December~~ ~~November~~ meeting may cast a vote by mail.

LETARC SEPTEMBER 2018 CALENDAR

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9 DINNER	10	11	12	13	14	15
16	17	18	19	20	21	22 LETARC MEETING VE SESSION
23	24	25	26	27	28	29 TEXAS QSO PARTY
30 TEXAS QSO PARTY						

September 9, 2018 at 6:00PM – Butcher Block, 102 Lehigh St, Longview, TX 75601

September 22, 2018 at 9:00 AM – LETARC Monthly Meeting at City of Longview Fire Training Facility, 411 American Legion Blvd, Longview, TX.

September 22, 2018 at 2:00 PM – VE Session at LeTourneau University is located on 2100 S. Mobberly Avenue in Longview, TX in the Glaske Engineering Center, Room C103.

September 29 – 30, 2018 – TEAS QSO Party – 1400Z, Sep 29 to 0200Z, Sep 30, 2018 and 1400Z-2000Z, Sep 30, 2018, at radio room Mims VFD.

**LETARC MEMBERSHIP
APPLICATION
PO BOX 5613
LONGVIEW, TX 75608-5613**

Membership: * New * Renew

Calendar Year: 2018

Date: _____

CALL SIGN: _____ LICENSE CLASS: _____

LAST NAME: _____ FIRST NAME: _____ MI: _____

ADDRESS: _____

CITY: _____ ZIP: _____

TELEPHONE: _____ CELL PHONE (optional): _____

E-MAIL ADDRESS: _____ DATE OF BIRTH: _____

ARRL MEMBER? * YES * NO

=====

TYPE OF MEMBERSHIP (check one)

- Full Membership: \$25.00 per year. A full member shall be an FCC licensed Amateur Radio Operator
- Family Membership: \$35.00 per year. A family membership is available to members of the same family, provided they reside at the same residence. Each member has the same privileges and same membership requirements as a full member.

Privacy: Member names, addresses, (including e-mail addresses and other personal information shall not be supplied to any third party without expressed consent of the individual.

Signature: _____ Date: _____

=====

Please list **all** of your Amateur Radio **Interests**: [Examples: Contesting, CW, 6 meter, 1.2 GHz, Kit building, ISS, AMSAT, Emergency Communications].

Entered master database;__ Confirmation letter sent;__ Entered master email list:__

For use by LETARC