



## Speical Information on Proposed 2m Band Plan Change

### Online Voting

[Online Voting](#) is open until 12:01 AM on Saturday, **July 30, 2011**. Nominations shall remain open during this time, and shall be posted to the web site no later than three days after receipt by the election committee. Please send nominations to [secretary@txvhffm.org](mailto:secretary@txvhffm.org)

**On-line Voting Link:** <http://www.rfprojector.com/txvhffm>

### On-line Simplex Users Poll Reopened

The Texas VHF-FM Society has had a proposal to modify the Texas band plan since 2008. Details of the proposal can be found at an FAQ on our website at: [http://www.txvhffm.com/index.php?option=com\\_content&task=view&id=140&Itemid=38](http://www.txvhffm.com/index.php?option=com_content&task=view&id=140&Itemid=38)

The purpose of the poll is so that the membership will have data from all hams, including simplex users, when they vote on the proposal (the poll itself is not a vote, but rather guides the membership). We recognized this proposal has an affect on all hams of Texas, and we welcome your input. Last year we ran an on-line poll from Feb to October 2010 to understand the simplex usage around the state. Due to popular request, we are re-opening the poll again.

**You are not required to create an account to take the poll and it is open to any ham in Texas even if you are not a member.** To participate in the poll, please click this link: <http://www.rfprojector.com/txvhffm/> and take both the "Digital Repeater Band Plan" and "Simplex Usage" polls shown in the left hand menu.

If you are a licensed amateur who resides in the state of Texas, The Texas VHF-FM Society would like to hear from you. The Society has been coordinating digital repeaters on certain simplex frequencies on 2 meters in select areas of Texas. These provisional co-ordinations have been issued for the past three and a half years on an interim basis until such time as a formal band plan can be adopted.

Traditional repeater pairs in some major metropolitan areas are unavailable for coordination while there are a number of individuals and clubs who are expressing interest in putting digital technology on the air in these areas.

(continued on page 2)



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**Texas VHF-FM Society Summer Meeting**  
 Hosted by: Austin Summerfest 2011  
**August 5th and 6th , 2011**  
[www.austinsummerfest.org](http://www.austinsummerfest.org)

**Texas VHF-FM Society Meeting**  
 Aug 6th 1 P.M. Pecan Room  
 Austin Marriott South, 4415 South IH-35,  
 Austin, TX

## On-line Poll (cont'd)

To meet the demand, the Society proposes coordinating digital repeater systems on 2 meters as shown in the [FAQ link above](#).

You are not required to register to take the poll. There is no fee or membership required to register your poll or comments.

Please feel free to send your comments to our Secretary at [secretary@txvhffm.org](mailto:secretary@txvhffm.org)

## Band Plan Proposal FAQ

### *When was this change proposed?*

This proposal to modify the [Standards of Frequency Coordination](#) was presented to the general membership at the [Winter meeting on March 1, 2008](#) . The membership accepted the proposal, and it was postponed by the President, Rusty Herman, KB5R, until the Vested members can be polled in writing for agreement or non-agreement with the proposal. The process for changing a band plan is slow and deliberate by design.

### **What is the exact wording of the proposal?**

146.450 - 146.490 MHz, High in/low out, 1 MHz offset, 12.5 kHz channel spacing or less, any digital voice/data air interface technology suitable for the Amateur Radio Service that is compatible with the channel spacing. No analog transmission permitted.

### **What is the existing 2m band plan?**

The existing 2m band plan is shown below. Other band plans can be found on our website at [band plans](#).

## FAQ (cont'd)

### 144 to 148 MHz BAND PLAN

144.000 - 144.100 CW

144.100 - 144.275 Weak Signal SSB (144.200 Calling Freq.)

144.275 - 144.300 Propagation Beacons

144.300 - 144.500 Satellite Sub-Band

144.390 **Automatic Position Reporting System**

144.500 - 144.900 Repeater Inputs - paired with 145.10-145.50 Outputs

144.900 - 145.100 Packet

145.100 - 145.500 Repeater Outputs - 20 KHz spacing odd 10 KHz (-)

145.500 - 145.800 Simplex and Experimental

145.800 - 146.000 Satellite Sub-Band

146.020 - 146.400 Repeater Inputs - paired with 146.62-147.00 Outputs

146.400 - 146.440 Simplex

146.450 - 146.490 Digital repeater outputs - paired with 147.450 - 147.490 inputs (see Note 3)

146.500 - 146.600 Simplex (146.520 Natl. Calling Freq.)

146.620 - 147.000 Repeater Outputs - 20 KHz spacing even 10 KHz (-)

147.000 - 147.380 Repeater Outputs - 20 KHz spacing even 10 KHz (+)

147.400 - 147.440 Simplex

147.450 - 147.490 Digital repeater inputs - paired with 146.450 - 146.490 inputs (see Note 3)

147.500 - 147.600 Simplex

147.600 - 147.980 Repeater Inputs - paired with 147.00-147.38 Outputs

Note 1. Repeater input to output spacing is 600 KHz.

Note 2. The 145.25 Tx, 144.65 Rx repeater pair is a limited range, shared, non-protected channel and requires CTCSS or equivalent on the input and output

Note 3. Special Temporary Authorization has been granted until the Summer meeting 2011 for digital repeaters with 146.450 to 146.490 output and 147.450 to 147.490 input (12.5kHz or less spacing)

### **I thought there was a national band plan? Why is the Texas band plan different from the one in the ARRL repeater directory?**

Each coordination area (usually done by state) typically has a separate band plan. Below are links to some of the specific band plans for other states. There are many more, these are just a few. The 2m simplex allocations vary by as much as 350 KHz from state to state. Frequency coordination areas may or may not choose to follow the ARRL recommended band plan depending on local needs.

## FAQ (cont'd)

Links to band plans from other U.S. States:

Mississippi, Georgia, South Carolina, North Carolina, Virginia, West Virginia, Kentucky, Tennessee  
<http://www.sera.org/freq0101.html>

California  
<http://www.narcc.org/>

New England area  
<http://www.nesmc.org/docs/bandplans.pdf>

District of Columbia, Delaware, Maryland, Northern Virginia and the eastern panhandle of West Virginia.  
<http://www.tmarc.org/bandplan.html>

Western Washington  
[https://www.wwara.org/Band\\_Plans\\_2004\\_06\\_03.pdf](https://www.wwara.org/Band_Plans_2004_06_03.pdf)

Michigan  
<http://www.miarc.com/bandplan.html>

Louisiana  
[http://lacouncil.net/?page\\_id=155](http://lacouncil.net/?page_id=155)

Missouri  
<http://www.missourirepeater.org/band-plans/>

**There is a lot of talk that you are proposing to take away a "large portion" of available 2m simplex. Is this true?**

Large is certainly in the eye of the beholder, so let's look at some actual data. If you look at the band plans for the top 10 largest frequency coordination bodies in the USA for which band plans are available, Texas leads the nation with the most 2m FM Simplex bandwidth available of any state with 700 KHz. 2m FM simplex allocations vary considerably across the nation. The average total FM voice simplex bandwidth allocation across US in the 2m band is approximately 350 KHz.

If the 100 KHz of FM Simplex bandwidth were diverted for digital repeater usage, Texas would still have the second most FM Simplex bandwidth in the Nation. 100 KHz represents 14.2% of the available FM simplex bandwidth. Only you can determine whether 14% is a "large portion".

## FAQ (cont'd)

### Can the proposal be changed?

Yes. The proposal as it is written is currently "on the table" using the wording exactly as it is written, and it belongs to the organization as a whole and not to a particular person, committee, or board. The vested member poll was carried out using the wording above (the final poll). If the wording is changed through a motion(s) proposed by a member at the General Meeting, it is the President's determination as to whether the change affects the vested members. It is up to the President to determine if any proposed changes to the motion require the motion to be tabled again, and another Vested member poll taken.

### Why is this change being proposed?

Over the past two years, the interest in digital voice repeater technology has rapidly found its way into the Amateur Radio Community. Unfortunately many of our large metropolitan areas (DFW, Austin, and Houston) are saturated with 2m analog repeaters such that few if any repeater pairs are available. This proposed change will allow the propagation of new technology by making more 2m digital only repeater pairs available. It will also aid in helping "To encourage experimentation by the Society members in advanced techniques in the use of repeaters in order that the general technical excellence of repeater systems shall be improved". There were no other sponsoring "special interest groups" or corporations.

### Is this a D-Star only proposal? I thought this was all about D-Star?

The proposal covers any digital voice/data air interface technology suitable for the Amateur Radio Service that is compatible with the channel spacing. It is not just for D-Star as there are other technologies that fit these criteria (P-25, Icom/Kenwood NXDN, and Motorola TRBO, and others).

### This new allocation will take away part of the current 2m simplex allocation. What will be the impact?

The new proposed allocations use 14.2% of the total available 2m FM simplex bandwidth allocation. This still allows 600 KHz of space for simplex operation in the 2m band.

### Why are you proposing a 1 MHz offset? I thought repeater offsets were 600 kHz in the 2m band?

Unlike older Amateur Radio equipment, all of the digital voice/data air interface technology suitable for the Amateur Radio Service is frequency agile. The use of 1 MHz offsets allows for usage of a portion of the current 2m simplex allocation from 146.400 MHz to 146.600 MHz for repeater TX and 147.400 to 147.600 MHz for repeater RX. The 1 MHz offset will allow for the additional repeater pairs without disrupting any other analog repeater operations in the 2m band.

## **FAQ (cont'd)**

### **What do you mean by "12.5 kHz channel spacing or less"?**

Various digital voice/data air interface technology suitable for the Amateur Radio Service have different channel spacing requirements. This provision allows for frequency coordinators to meet the different spacing needs for different digital technologies. Some digital systems (i.e. D-Star) need 10 kHz spacing while others (like P-25) currently need 12.5 kHz spacing. Frequency coordinators will work with trustees to ensure minimal interference between adjacent frequency repeaters.

### **What is the process for making changes to the band plans?**

Each frequency coordination body across the USA has a method for making changes to their local band plans. For Texas, a proposal must first be made at a general meeting, and then may be tabled at the discretion of the President. If tabled, the Society will then perform a poll of the Vested Society members. The results of this poll will be read at the next general meeting where the change will be put forth for a vote. The members will vote "for" or "against" the proposed change. For this particular change, the organization has also solicited comments as well as an on-line pole where any Texas ham could voice their opinion.

### **What does this mean for existing analog repeaters?**

This proposed change has no effect on existing analog repeaters. The current repeater bands, offsets, and spacing remain. "No analog repeaters have been harmed in the proposal of this motion". In addition, digital repeaters may still be placed within the analog repeater allocations if a trustee wishes to replace an existing analog repeater with a digital repeater and the digital repeater emissions fit within existing spacing. We have several examples of existing analog repeaters being converted to digital

### **Who is giving up spectrum for this change?**

The spectrum being proposed for this change is taken from existing simplex allocations. If this proposal is passed, it removes 100 kHz of the current 700 kHz FM voice simplex allocations in the Texas 2m band plan.

### **Will this provide for all the "foreseeable" growth in digital repeater requirements?**

No single band plan change can provide for "all foreseeable growth". However, this band plan proposal does allow for coordination of a wide variety of digital modes such as D-STAR, P-25, and any other new digital mode that can exist within the 12.5 KHz spacing or less. It will be up to the zone coordinators to make sure that adjacent channel spacings are properly observed to reduce near channel interference.

### **Where / what will be the negative parties?**

The negative parties would be simplex users from 146.450 - 146.490, and 147.450 - 147.490

## FAQ (cont'd)

MHz. We expect the impact to be negligible because it is a simplex region, and the proposal only uses 100 kHz of the 700 kHz available. It does not displace any of the existing analog repeater systems. We have been issuing provisional digital coordinations in this range since 2008 and there have been only a few complaints from simplex users. The hams that have complained have been very vocal regarding their negative opinion of the proposal.

### Who performs band planning?

The term band plan refers to an agreement among concerned VHF and UHF operators and users about how each Amateur Radio Band should be arranged. Band planning is typically performed by the regional frequency coordinator in a particular state or states. It is not performed by the FCC or the ARRL (although the ARRL provides a suggested band plan which regional coordination bodies may or may not adopt).

### I thought it was illegal to reassign FM Simplex Frequencies? I thought only the FCC can change the band plan?

FCC part 97.205 states where a repeater may **NOT** operate:

(b) A repeater may receive and retransmit only on the 10 m and shorter wavelength frequency bands except the 28.0–29.5 MHz, 50.0–51.0 MHz, 144.0–144.5 MHz, 145.5–146.0 MHz, 222.00–222.15 MHz, 431.0–433.0 MHz, and 435.0–438.0 MHz segments.

But the FCC does not designate specific FM phone simplex frequencies nor does it perform detailed 2m band planning. All other 'plans' are by gentleman's agreement.

### Has any attempt been made to contact simplex users who may not be members of the Texas VHF-FM Society?

Yes, several attempts have been made to include input for simplex users including:

- An on-line poll was hosted from Feb 2010 to Oct 2010, and again in July 2011 by the Texas VHF-FM Society where any Texas Ham can post their opinion
- An eham article was written <http://www.eham.net/articles/23414>
- [All Texas VHF-FM Society Newsletters](#) are available for free download
  
- There have also been several suggestions that the Texas VHF-FM Society set up a no cost on-line database for FM simplex users to track their usage of the band so that we are aware of usage across the state. This could be easily implemented if there is enough interest from simplex users to participate. Is there interest among 2m simplex users? It is no small task to try and obtain agreement among the 48,000+ hams in Texas. Overall we recognize this change affects the entire state and we want to be as inclusive as possible. Comments on this or any other topic are still welcome, and may be sent to the Secretary via email at [secretary@txvhffm.org](mailto:secretary@txvhffm.org)

# 2 m Band Plan Change Proposal

## (to be voted on at Summer Meeting)

146.450 - 146.490 MHz, High in/low out, 1 MHz offset, 12.5 kHz channel spacing or less, any digital voice/data air interface technology suitable for the Amateur Radio Service that is compatible with the channel spacing. No analog transmission permitted.

This motion for the 2m band plan change was placed on the table at the March 1, 2008 General Meeting.

The text of the proposal is printed on the front page of the Summer 2008 newsletter (Vol 42. No. 1)

The Vested membership was polled for agreement/disagreement during the Fall of 2010, and the following report was read at the January 22, 2011 General meeting in San Antonio.

153 responses: 94 for / 59 against  
(roughly 61% for / 38% against)

- **Existing Band Plan:** 33 wideband simplex “channels” currently exist as shown in green
- **If the Proposal is approved:** 25 wideband analog “channels” would continue to exist and at least 5 narrow band digital repeater pairs would be created. The true number of narrow band pairs would depend on the actual channel spacing utilized by the digital technology.

This motion will be brought off the table for a vote for or against the motion at the Summer meeting of the Texas VHF-FM Society.

This chart represents the existing simplex allocation for the 2m band

145.520	Analog		
145.540	Analog		
145.560	Analog		
145.580	Analog		
145.600	Analog		
145.620	Analog		
145.640	Analog		
145.660	Analog		
145.680	Analog		
145.700	Analog		
145.720	Analog		
145.740	Analog		
145.760	Analog		
145.780	Analog		
146.420	Analog		
146.440	Analog		
146.460	Analog	→	146.450 Digital
146.480	Analog		146.460 Digital
146.500	Analog		146.470 Digital
146.520	Analog	→	146.480 Digital
146.540	Analog		146.490 Digital
146.560	Analog		
146.580	Analog		
147.400	Analog		
147.420	Analog		
147.440	Analog		
147.460	Analog	→	147.450 Digital
147.480	Analog		147.460 Digital
147.500	Analog		147.470 Digital
147.520	Analog	→	147.480 Digital
147.540	Analog		147.490 Digital
147.560	Analog		
147.580	Analog		

Example of digital repeater pairs that could be created. This represents **14.2%** of all 2m voice simplex bandwidth available



# AUSTIN SUMMERFEST 2011

August 5 & 6, 2011

Austin Airport Marriott South  
4415 South IH-35

Austin, Texas  
78744

## Continuing a Ham tradition!

Same great  
location !!!

Once again it's time for fun in the sun in central Texas as we make the Capital City the place to be in the middle of the Texas summer. Come and enjoy old friends, the swapfest, and all the events at Austin Summerfest 2011, the ARRL Texas State Convention. And as always, we also host the Summer Meeting of the Texas VHF-FM Society.

Check out  
[www.austinsummerfest.org](http://www.austinsummerfest.org)  
for late breaking news!

### Schedule

All the activity is concentrated on Friday night and Saturday, to allow you flexibility in your weekend travel plans. But do come early, as things fire up at 6 Friday evening and go till 9, and start up again Saturday at 8 am, with swapping till 3:30 and dealers & sessions till 4:30.

The Texas VHF-FM Society meeting will run from 1 to approximately 3 pm, so mark your schedule.

### Prizes

Prizes Galore! You have a chance at a slew of them, including these three Major Prizes:

- Grand prize is a Yaesu FT-857D HF/6W/2M/70 cm compact all-mode transceiver.
- Our Featured Prize is Yaesu FT-60R heavy duty 2M/70 cm 5W FM handheld.
- A special Bonus Prize is a Yaesu FT-270R 2M 5W heavy-duty handheld.



Advance Registration  
and Bonus Prize,  
Yaesu FT-270R

Furthermore, if you register in advance by mail you have a shot at still one more prize—another Yaesu FT-270R!

With your registration you get one ticket good for Saturday's door prizes and the Major Prizes, and you can buy more tickets at \$1 each. Plus, if you rent a room at one of the Convention Hotels, you'll get five bonus tickets for each room-night, up to a total of ten tickets. (See next page for prize rules.)



Featured Prize,  
Yaesu FT-60R



Grand Prize,  
Yaesu FT-857D

### Dealers

There'll be our usual fine contingent of dealers, ready to help you with their knowledge of the latest products, and a great selection of them too. Think of those little odds and ends that you've been thinking of getting for the shack—well, here's your chance to get them while they're on your mind.

### Swapfest

For lots of folks, our main event—wall-to-wall goodies of every description, brought to you in carpeted, air-conditioned comfort on Friday evening and Saturday.

### Rules:

- Full-sized tables: 6 feet by 30 inches. \$10 each, limit of 3 to a customer. First come, first served.
- AC power is available at an additional \$5 per customer, through advance registration only.
- We'll attempt to honor requests from groups of sellers for adjacent tables, if we receive your registrations in the same envelope.
- If you advance register for swap tables, we'll attempt to notify you in advance if they are unavailable due to being sold out (a rare occurrence). Be sure to give us your email address so we can notify you that way.
- Your table(s) will be held for you until 10 am Saturday.
- Swapfest hours are 6 to 9 pm Friday and 8 am to 3:30 pm Saturday. Opening times are for both sellers (for setup) and shoppers.
- Buyers and sellers must be registered at the convention.

We'll be holding a Tailgate swapfest on the east side of the Marriott hotel. You need not be registered at the Convention to sell at the tailgate, but of course you'll want to attend the indoor swapfest and sessions, so it would be a good idea to register.

## Technical Sessions

- ARRL West Gulf Division Director **Dr. David Woolweaver K5RAV** conducts this year's **ARRL Forum**, with Vice Director **John Robert Stratton N5AUS**. Together, they welcome **Brennan Price N4QX**, ARRL Chief Technology Officer, who will be on hand to discuss advanced communications technologies as well as other Ham topics of national importance.
- The **Central Texas DX & Contest Club**, widely recognized for its excellent Summerfest presentations, has yet another outstanding program lined up for us.
- **FlexRadio Systems** personnel give us the latest on the Software Defined Radio project.
- Find out how to do "the mostest with the leastest" in our QRP workshop.
- The **Roadrunners Microwave Group** hold their annual meeting and host a session on the latest topics on the "high end."
- **Keith Pugh W5IU** leads a wide-ranging discussion on communications through **Amateur Radio Satellites**.
- **Tom Whiteside N5TW**, South Texas Section Emergency Coordinator, hosts a session on **Emergency Communications**.
- **Weather?** Learn about the latest in forecasting technology, and learn about recent weather events with leading Austin meteorologists. Hosted by **Troy Kimmel KE5BCK**, of **KEYE News** and the University of Texas, and featuring top weather experts from Central Texas.

### Directions

The Austin Marriott Airport South is at 4415 South IH 35, Austin TX 78744. The SpringHill Suites are in the same complex, at 4501 South IH 35. Talk-in is on 146.34/94 MHz (tone 107.2 Hz).

**IH 35 Southbound:** Take Exit 229, go 1.3 Mi. to E. Stassney Lane and turn left. Turn left again onto IH 35 northbound service road and travel 1.0 Mi. to Marriott Hotel.

**IH 35 Northbound:** Take Exit 230 and travel 0.7 miles north on service road to Marriott Hotel.

**US Hwy 71 Westbound:** Exit at Burleson/Woodward and travel on the service road under IH 35. Turn left onto the IH 35 southbound service road. Continue 1.4 miles to E. Stassney Lane and turn left. Turn left again on the northbound service road and travel 1 mile to the Marriott Hotel.

**US Hwy 71 Eastbound:** Exit just after passing under S. Congress (Currently shown as IH 35 South San Antonio, but may change due to construction). Continue East about 0.4 miles and turn right onto the IH 35 southbound service road. Continue 1.4 miles to E. Stassney Lane and turn left. Turn left again on the northbound service road and travel 1 mile to the Marriott Hotel.

### Prize Rules

We'll award door prizes throughout the day Saturday, until noon. For these, you must claim your prize by 12:45 pm Saturday. We'll post your name/call or ticket number at the prize drawing table.

At 1:00, we begin drawings for our three Major Prizes.

For the Major and Advance Registration Prizes, you need not be present to win. If you're a winner, we'll post your name and hold your prize. If you haven't claimed it by the end of the day, we'll send it to you.

### License Exams

An exam session Saturday afternoon will cover all elements. Bring a photo ID and one other form of identification, and \$15.00; if you're upgrading, bring your current license, any applicable CSCE's, and a photocopy of each. For more info email **Larry Gunter WB5BEK** at [wb5bek@arrl.net](mailto:wb5bek@arrl.net)

After the exams, **Jeff Schmidt N5MNW** and **Ron Hambric N5SBN** have just what you need: A Welcome and Information for New Hams.

### Amenities

Come on up to our hospitality suite—that's where you'll find your old friends and new ones too. There are soft drinks and munchies on Friday night, and refreshments on Saturday morning. Saturday evening we'll serve soft drinks, munchies and eyeball QSOs lasting into the night.

The Marriott will again serve a specially priced buffet lunch on Saturday.

### Administration Matters

Exchange views with West Gulf Division Director **David Woolweaver K5RAV**, Vice **John Robert Stratton N5AUS**, and our special guest from ARRL HQ, **Brennan Price N4QX**, Chief Technology Officer. Find out what's going on and offer your opinions and insights. The ideal way to get or stay involved!

As always, we host the Summer Meeting of the Texas VHF-FM Society, scheduled for 1:00 Saturday afternoon.

### Craft and Skills Events

**Sandy Talen** hosts our crafts session. And back this year, by numerous requests—garden dragonflies! No prior experience required. Come for a short while or the whole session. Did we mention, no charge? Children are welcome, but an adult must be with the children to supervise and help.



Austin Summerfest, Inc.  
8609 Tallwood Drive  
Austin, TX 78759-8126

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# AUSTIN SUMMERFEST 2011



## The ARRL Texas State Convention The Texas VHF-FM Society Summer Meeting

### A word about our special guests...

The Texas VHF-FM Society is a group of several hundred amateurs with a special interest in the design and operation of VHF and UHF repeaters. Starting with a small group of hams over 40 years ago, the Society now counts as members the licensees or technical custodians of nearly all the repeaters in Texas. It is affiliated with the ARRL. The Society initiated frequency coordination in Texas. Today, it continues in that role, minimizing intercommunity friction and helping the maximum number of amateurs operate and use repeaters. The Society educates, mediates, and arbitrates all matters of frequency coordination brought to its attention. The members of the Society invite you and your friends to join us; we know you will find it fun and rewarding to be a part of this organization.



**TEXAS  
VHF-FM  
SOCIETY**

*Texas VHF FM Society exists as the frequency coordination group for  
amateur radio communications in the State of Texas.*

**Texas VHF FM Society, Inc  
Po Box 82666  
Austin, TX 78708-2666**

**On the Web  
[www.txvhffm.org](http://www.txvhffm.org)**

The Texas VHF-FM Society NEWS is published by and for the membership. Articles are encouraged and accepted that express views or information pertaining to the interest of Amateur Radio. The Texas VHF-FM Society NEWS reserves the right to edit material submitted with respect to suitability, style and format. Views and opinions expressed in the NEWS, unless specifically noted, do not necessarily represent those of the Directors of the Texas VHF-FM Society, Inc. Permission is hereby granted to reproduce any part or all of this publication provided that the Texas VHF-FM Society NEWS is acknowledged as the source. Copies of the By-laws and Articles of Incorporation of the Texas VHF-FM Society are available from the secretary upon request and may also be viewed online at [www.txvhffm.org](http://www.txvhffm.org).