



W3UU NEWSLETTER

— JANUARY 2022 —

Club Officers:

PRESIDENT:

Robert Saber, K3RTS
k3rts@w3uu.org

VICE PRESIDENT:

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k3esu@w3uu.org

SECRETARY:

Frank Aponte, KC3NRK
kc3nrk@frankaponte.com

TREASURER:

David Dormer, KC3MG
DDDormer@gmail.com

LICENSE TRUSTEE:

David Dormer, KC3MG
DDDormer@gmail.com

EQUIPMENT TRUSTEE:

Terry Snyder, WB3BKN
WB3BKN@djerry.com

Committees:

WEBMASTER: W3UU.ORG

Michael Drawbaugh, KD3MAD
webmaster@w3uu.org

EMCOMM:

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MEMBERSHIP:

Tim Lehman, W4NKC
w4nkc.hv@gmail.com

NEWSLETTER EDITOR:

Curt Sanders, K3URT
HRAC.Newsletter@gmail.com

ELMER TIME COORDINATOR:

Joe Hannon, W3JPH
johannon.jh@gmail.com

HAMFESTS & REPEATER:

Terry Snyder, WB3BKN
WB3BKN@djerry.com

NET OPERATIONS:

David Dormer, KC3MG
DDDormer@gmail.com

VE TEAM LEADER:

Steven Gobat, KA3PDQ
ka3pdq@juno.com

NEXT MEETING is **Wednesday, 12 January**. HRAC meets the second Wednesday of each month with “**Elmer Time**” education at 1830L, business meeting at 1900L, all at the Harrisburg Vietnam Veterans of America Chapter 542, 8000 Derry Street, Harrisburg, PA 17111. — HAPPY NEW YEAR —

NOTE From The New President:

Happy New Year!

The annual WinterFest was just held and we are working on plans for the Firecracker Hamfest already!

The annual **Hamfeast banquet** on **Wednesday, February 9th**, will be at the Peachtree Restaurant on North Progress Avenue. Additional information will be emailed out to members. We begin at 6 p.m. and will have awards and door prizes after dinner. Everyone is responsible for their own meal. This is a good time, but you must be a paid up member to win prizes.

We are working on planning events for the coming year. Please bring ideas to the meetings or email them to me.

Bob, K3RTS

— ELMER TIME —



Dave, KC3MG, displays a spud (antenna line) launcher at the December Elmer Time.

This Meeting's **Elmer Time**, at 1830L, is by **Dave, KC3MG**. Dave's presentation is a continuation of: "Introduction to 160 meter loop antennas." Part 2 — "Feed lines for a 160 meter loop" including ladder line construction techniques. ■



The Harrisburg Radio Amateurs Club Inc., [HRAC] formed 1 July 1946, as an association of individuals commonly interested in amateur radio, based in Harrisburg, Pennsylvania. It is an ARRL affiliate club.

At the end of World War II, many veterans returned to the Harrisburg area trained and used radio communications in the military. It soon became a common factor among local hobby enthusiasts. Fifty-eight charter members developed the original constitution and bylaws for the club. In 1960, HRAC became a non-profit corporation in Pennsylvania.

The club continues to promote amateur radio in the area in many ways. HRAC is involved with young people by helping with scouting's JOTA activities and promoting amateur radio with school clubs and organizations.

Since 1949, members have provided communications for the American Red Cross in Harrisburg for Dauphin County and Pennsylvania Emergency Management. In addition, we conduct periodic training sessions for emergency responders.

HRAC has three hamfests throughout the year: July's **Firecracker Hamfest** /Eastern Pa Section Convention is always the Saturday before the first Sunday in July. During the convention, you may hear special event station W3UU from the hamfest tailgating area. We set up and operate W3UU to demonstrate amateur radio and invite operators to join in and make contacts. Second: **Oktoberfest**. Third: the well attended **WinterFest** in January is an indoor tailgate fest. ■

HRAC CLUB CALENDAR 2022:

January:8th, HRAC WinterFest (see flyer attached at end)
.....12th, club meeting.

February:9th, club meeting; Hamfeast at Peachtree Restaurant.
.....19th, license testing (see below).

March:9th, club meeting.

April:.....13th, club meeting.
.....16th, license testing (see below).

Please consider stepping up to make a presentation during one of the meetings' "Elmer Time." Everyone has expertise in something and can bring something to the table. Do more than consider, DO it. ■

— Club station W3UU —

Repeater Frequency:
146.760 MHz, minus .600 MHz offset

Repeater CTCSS Tone: 100.0 Hz (Encode/Decode)

Weekly Net: Wednesdays at 1900L (except meeting nights)

Website: W3UU.org

FaceBook: www.facebook.com/Harrisburg-Radio-Amateurs-Club-208171495915056/

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Please NOTE: underlined words in the newsletter are "hot" linked to emails and external websites. HRAC is not responsible for their content or performance. URL's were verified a few days prior to publication. ■

LICENSE TESTING:

Affiliated with the Laurel Volunteer Examiners (VE), HRAC conducts testing in February, April, June, August, October, December, and other announced times. Sessions begin at 0900L at the announced location. Steven, KA3PDQ, is the Team Leader.

We *require*:

- pre-registration for exams to ensure that we have the level of staffing necessary to conduct an exam.
- your FCC Federal Registration Number (FRN)
- a valid email address *in advance* of registering for an upcoming exam.

Registration form and information is at the club's website: www.w3uu.org/license-exams/. ■

—The next test session is scheduled for 19 FEBRUARY 2022, at the Harrisburg Vietnam Veterans of America Chapter #542, 8000 Derry St., Harrisburg, promptly beginning at 0900L.

HRAC MEETING MINUTES: 8 December 2021

The December 8, 2021 meeting of the Harrisburg Radio Amateur's Club, Inc. was called to order at 1911 HRS by the Vice President, Robert (K3RTS)

The December meeting of the HRAC was held at the Vietnam Veterans Association Building, 8000 Derry St, Harrisburg, PA. Due to the continuing COVID – 19 pandemic those in attendance took the recommended precautions.

The members introduced themselves.

Secretary Report – The minutes of the November 10, 2021 meeting were published in the newsletter. Tim (N4NKC)) made a motion to accept the minutes as published George (AC3EA) Seconded, the motion passed.

Treasurers Report – Dave (KC3MG) read the treasurers report. For the month of November 2021. George (AC3EA) made a motion to accept the November 2021 Treasurer's report Paul (KA3SGY) seconded, the motion passed.

Nominations and Election – Dave (KC3MG) read the nominating committee's report; The committee consisting of Dave (KC3MG), Tim (W4NKC) and Frank (KC3NRK) presented the following slate of officers.

President – Robert Saber (K3RTS)
 Vice President -Emily Ulrich (K3ESU)
 Secretary – Frank Alsina (KC3NRK)
 Treasurer – David Dormer Jr. (KC3MG)

Motion was made to accept the committee's report by Paul (KA3SGY) the motion was seconded by Tim (W4NKC) the motion was passed.

Robert (K3RTS) opened the floor for additional nominations. There being none, Dave (KC3MG) made a motion to have the secretary to cast a vote of one to elect the slate to office. Steve (KC3EUU) seconded the motion. Motion Carried.

License Trustee – Dave (KC3MG) reported that there were no changes.

Equipment Trustee – Terry (WB3BKN) reported there were no changes.

Repeater Committee – Terry (WB3BKN) reported that there were still interference problems from a high powered Paging transmitter. Terry also reported that the committee was hopeful that the CAT 1000 controller could be repaired.

Laurel VE Committee – Steven (KA3PDQ) reported that the next exam session scheduled is schedule for December 18, 2021 at 8000 Derry St @ 9:00 AM. Testing is free. Preregistration is required.

Membership Committee – Tim (W4NKC) reported that there were 79 Club Members with 47 also belonging to the ARRL.

Newsletter Editor – Kurt (K3URT) reported to the group on how to submit articles.
 Please send articles to HRAC.Newsletter@gmail.com. **Deadline January 7, 2022.**

Web Page – No Report

Emergency Communications – Robert (K3RTS) reported on recent communication exercises.

Cyper Wind was conducted on November 13, 2021. 485 unique stations, 4 radio Operators participated from Dauphin County and three of them members of HRAC, KC3LYV, K3RTS and KA1YSR.

Todd KC3LYV and K3RTS were involved in a South Central PA Task Force exercise on November 21. The emergency situation simulating an earthquake required the Amateur radio team to transmit hundreds of kilobytes of map GPX file data from there Location at HACC to the Masonic Village station. This was accomplished by use of the Winlink VARA FM mode. A temporary digipeater was located near the HIA radar site to complete data transfer.

Elmer Time – Joe (W3JPH) Looking for topics and presenters. Joe thanked Dave (KC3MG) for his presentation on 160 meter antenna systems.

DXCC – Glenn (K3SWZ) reported on continuing activity.

Ham Feast - The membership discussed several ideas for the event. Tentative date is February 9th, 2022

Hamfest Committee – Terry (WB3BKN) reported on the upcoming Winter Hamfest to be held on January 8, 2022. Terry is looking for club members to volunteer to help with volunteers to arrive by 4 A.M.

Field Day – Bob (K3RTS) reminded the group of the Winter Field Day event to be held January 29 and 30 2022.

Trailer Committee - No report

Old Business – None

New Business – Bob (K3RTS) told the group on a need to donate funds to the VVA for all their kindness. Joe (W3JPH) made a motion to donate \$200.00 to the VVA. George (AC3EA) seconded the motion. Motion carried.

Good of the Club –

Adjournment – With no further business meeting was adjourned at 1931 hours. Motion to adjourn Frank (KC3NRK) seconded by Joe (W3JPH)

Respectfully Submitted

Steven Gobat, KA3PDQ

The Meeting Minutes is a document of HRAC, Inc. Therefore, all content is unabridged from the original except for font and page adjusted fitted format. Corrections to the Minutes are made at the next club meeting by vote of the membership by approval/disapproval. — Ed.

Webmaster Report – December 2021 Club Meeting

Dear HRAC Club Members,

Since November 2021 meeting, we started to experience more down time coasting into the end of the year as other priorities pulled us away (which is normal this time of year). We did engage in a special project to digitize some historical documents and images on behalf of a Silent Key. We also attended to the normal monthly updates for announcements, club meetings and other time sensitive events.

Looking forward into 2022, we will be continuing normal operations as mentioned above while focusing on more enhancements to the website. Those to be included, but not limited to are SSL Security Certificate for Website; Photo Album and increasing the amount of content for Elmer time and other educational interest in amateur radio in general. All in due time. If you are interested in submitting content or assisting with the maintenance of content, please contact kd3mad@w3uu.org.

Also, if any officer, staff member or club member is interested in a W3UU email address, there are still many slots available. The would be issued in order of priority. Officers first, staff members 2nd and club members 3rd. Example would be kd3mad@w3uu.org. You can contact your new Club President Bob at k3rts@w3uu.org and new Club Vice President Emily at k3esu@w3uu.org.

As always, please continue to provide feedback and suggestions for information and content. This is the club's website, so membership is highly encouraged to share feedback with Michael KD3MAD at kd3mad@w3uu.org.

We continue to be an active hub for VE Testing. This month's **License Exam Request Forms:** **2**

Website Statistics for the Month November 10, 2021 – December 7, 2021

Contact Us Submissions	Successful Outreach	Notes
5	5	Most exchanges continue to be individuals new to the hobby looking for information on exams, or recently licensed interested in joining the club. Also, past/current members looking for other past/current members.

Number of Impressions	Number of Click-Throughs	Average Rank per Search
2, 150 (down 329 or 13%)	77 (3.6% Click Rate)	37.6

Top 5 Performing Pages by Search	Number of Impressions	Number of Click-Throughs
Home Page	283	41
Hamfest Landing Page	249	17
Licensing Exams	85	2
Skywarn	21	2
Newsletter	5	2

Top 5 Performing Searches	Number of Impressions	Number of Click-Throughs
w3uu	22	9
harrisburg hamfest	8	4
hamfest pa 2021	15	2
qsl card printers	50	0
ham radio swap shop	90	0

Items are ranked in order of Click-Throughs. Other notable impressions from searches include: "fema region 3"; "hanover hamfest" and "ham radio prep"

This report is hereby respectfully submitted.

Michael A. Drawbaugh (KD3MAD)
 Webmaster, Harrisburg Radio Amateurs' Club

CONTESTING



- **Contest Calendar January 2022 (over 130):**
www.contestcalendar.com/contestcal.html
 - Popular for January:
 - PODXS 070 Club PSKFest (8)
 - ARRL RTTY Roundup (8)
 - ARRL VHF (15-17)
 - **Winter Field Day (29-30)**
- **Note new rules this year.**
- **One-By-One special events (32):**
www.1x1callsigns.org
- **Contester Scores:**
www.3830scores.com/index.php
- **ARRL Contest Calendar:**
www.arrl.org/contest-calendar ■

New Low-Power Limit for ARRL HF Contests Starting 1 January 2022.

Effective January 1, 2022, the power output limit for low-power categories has been lowered from 150 watts PEP to 100 W PEP. With the exception of ARRL Field Day, this change is in effect for all ARRL- sponsored HF contests as well as the IARU World HF Championship.

This change has been implemented to standardize the low-power categories in the contesting community. Additionally, the previous 150 W limit is no longer applicable to low power contest categories because most modern HF transceivers only have a power output of 100 W or less. — *ARRL Contest Update, 22 December 2021.* ■

The World Radiosport Team Championship (WRTC), initially scheduled for 2022, has been postponed to July 2023.

“In consideration of the worldwide public health challenges from the Covid-19 pandemic, we believe our decision is reasonable. We have received many communications from competitors and friends of WRTC and have taken them very seriously.” — www.wrtc2022.it and wrtc.info ■

HRAC CLUB NEWS

CONGRATULATIONS NEW 2022 CLUB OFFICERS:

- President:**.....Robert Saber, K3RTS
- Vice President:**Emily Ulrich, K3ESU
- Secretary:**.....Frank Aponte, KC3NRK
- Treasurer:**.....David Dormer, KC3MG
- Trustee, Equipment:**...Terry Snyder, WB3BKN
- Trustee, License:**David Dormer, KC3MG

Voted by acclamation by the membership at the 8 December 2021 meeting.

LICENSING: HRAC LAUREL VOLUNTEER EXAMINER TEAM

2021 Year End Report

VE Honor Roll:

KA3PDQ	108
KE3YC	97
W4NKC (KB3OZA)	66
K3DRE	63
N3FWE	48
KB3MCK	47
N3HLK	46
K3URT	39
KV3Q	27
KB3PQT	26
N3QLB	25
N3UGW	22
K3WKK	16
AC3EA	7
W3JPH	1

2021 Test Sessions: 6

Great Job Everyone!!! Thank You — **Steven, KA3PDQ** (Team Leader) ■

Testing Session, 18 December 2021 Results:

We had (4) applicants. Two (2) passed the Element 2 exam.

One (1) very special person passed his element (3) Exam.

John scored 100% all without seeing the exam. “I can't imagine what it takes to do this. It was quite exciting as we filled out his answer sheet on his way to 100%.”

Thanks to:

- Tim, W4NKC**
- Curt, K3URT**
- Frank, KB3PQT**

Steven, KA3PDQ: "this must have been the first time I graded in 8 years!"

“All the 2022 sessions have been uploaded to Laurel and ARRL.

See you on February 19, 2022” — **Steven, KA3PDQ** ■

CURRENT EXTRA EXAM QUESTION E3A14:

What is meant by circularly polarized electromagnetic waves?

- A. Waves with an electric field bent into a circular shape
- B. Waves with a rotating electric field
- C. Waves that circle the Earth
- D. Waves produced by a loop antenna

Correct Answer: B

LOCAL AREA NETS (ALL TIMES ARE LOCAL):

MONDAYS

- ✓ 1900: @145.110 MHz, 131.8 Hz Tone, FM, W3ND, **Dauphin County ARES/RACES** Training Net.
- ✓ 2000: @146.970 MHz, 123.0 Hz Tone, FM, W3HZU Keystone VHF Club net, York.
- ✓ 2030: @145.430 MHz, 67 Hz Tone, FM, N3TWT South Mountain Radio Association net, Mt. Holly Springs.

TUESDAYS

- ✓ 1900: @146.970 MHz, 123.0 Hz Tone, FM, W3HZU Keystone VHF Club Digital Net.
- ✓ 2000: @147.315 MHz, 82.5 Hz Tone, FM, K3LV, Lebanon Valley Society of Radio Amateurs, Emergency Net.
- ✓ 2100: @145.230 MHz, 114.8 Hz Tone, FM, K3IR Southern Pennsylvania Radio Club net.

WEDNESDAYS

- ✓ 1900: @146.76 MHz, 100.0 Hz Tone, FM, **Harrisburg Radio Amateurs Club** Information net, W3UU, every Wednesday except club meeting, second Wednesday.
- ✓ 2000: 28.400 MHz, simplex net, USB, Cumberland Amateur Radio Club (except 3rd Wednesday)
- ✓ 2100: @145.110 MHz, 131.8 Hz Tone, FM, W3ND, Central Pennsylvania SkyWarn™ net

THURSDAYS

- ✓ 2030: @145.270 MHz, 74.4 Hz Tone, FM, N3TWT, FM Allstar Echolink net.
- ✓ 2100: @145.390 MHz, 118.8 Hz Tone, FM, W3AD Lancaster Transmitting Society net.

FRIDAYS

SATURDAYS

- ✓ 2030: 146.580 MHz, simplex, FM, Lancaster Co.

SUNDAYS

- ✓ 0730: 3.583 MHz, PA-NBEMS, Thor22 and MFSK32.
- ✓ 0800: 3.9935 MHz, PEMA statewide Auxiliary Communication Service, LSB (first Sunday of the month only).
- ✓ 0830: 3.9935 MHz. Central Pennsylvania Auxiliary Communication Service, LSB.
- ✓ 1900: 146.490 MHz, simplex net, FM, Cumberland Amateur Radio Club
- ✓ 2000: @146.640 MHz. 85.5 Hz Tone, FM, AA3RG Appalachian Amateur Radio Group net.
- ✓ 2030: @147.120 MHz, 100.0 Hz Tone; FM, W3ACH Cumberland Valley Amateur Radio Club net.

DAILY

- ✓ 1900: 3.585 MHz, CW, Pennsylvania Traffic Net.
- ✓ 1945: @147.015 MHz, 118.8 Hz Tone, FM, W3RRR Lancaster County Welfare Net; Red Rose Repeater Association.

® = repeater. Members: Add or update your favorite regional net!

HAM HISTORY

“With the 4-1000A plate glowing...”



“In late June 1972, the Mid-Atlantic states were being pounded by Hurricane Agnes.

Field Day was even modified to protect emergency communications.

There were no Cell Phones or Internet, so communications were by commercial means, which was spotty and, of course, Ham Radio. My wife-to-be had an aunt and uncle who were in the Canal Zone as he was in the U.S. Army attached to some Generals staff. Her family knew they would be worrying about the family in Pennsylvania. I said we could take care of that, and I introduced my future in-laws to Ham Radio. Barb and I went to my parents QTH, and I got on 20 meters. In those days, KZ5 and HP stations were quite common. I tuned around and found HP1XIS very

Celebrating 60 years of amateur radio.

loud. I knew that the HP1X call was an American and that good phone service existed within Panama around the canal. I called him and asked if he could run a Phone Patch on a semi-emergency basis. He was glad to help. He was able to get the phone number from a military directory. Shortly her aunt was on the other end, and I gave Barb the mic. With the 4-1000A plate glowing, they had a nice chat and put everyone at ease in Panama. After I thanked the HP1 station and signed, half the world was calling me, as I was likely the only station on 20 Meters at that time from the Harrisburg area. Most of the emergency communications was regional and were on 75 Meters and VHF. I pulled the big switch, and we went on about our activities. I always felt bad about that, but phone service was very limited, so I would have been of little help, anyway.

Yes, we are still married! Somehow, she manages to put up with me!” — **Glenn Kurzenknebe, K3SWZ** ■

— A similar article also appears in GO FRC, newsletter of the Frankford Radio Club. Volume XLIII Issue 1, January 2022, p. 4. “2022 marks 60 years as Ham!”

NEWS • COMMUNIQUES • MESSAGES • DISPATCHES • QST • REPORTS • TALK

Technician and General Classes: Lancaster County Public Service Training Center

Tech:
Jan 15-16 Apr 9-10
Aug 20-21 Oct 15-16

General: Oct 29-30

Contact:
Ralph Brandt, K3HIQ
1705 Misty Dr
York PA 17408-4237
C 717-885-3063 • H 717-792-1017
ralph.brandt@comcast.net ■

Zoom Extra License Training Class At National Electronics Museum

Free weekly, live, **Extra Class** Licensing course on Zoom beginning Thursday, January 20 through Thursday, March 31 (11 sessions). Sessions will start at 6:30, and run 3 hours. These are the classes sponsored by the National Electronics Museum that they have been holding for years. Those wishing to sign up should email roland.anders@comcast.net — www.w3vpr.org/extraclass ■



What Did Santa Bring You?

If you weren't naughty, share your latest gear received from the polar OM (or supporting significant other). It can be from the last few months. email:

HRAC.newsletter@gmail.com



No big-ticket gear, this year, but K3URT is partial to his cats and liked ARRLs' theme "Cats in Shacks" 2022 calendar. ■

The Wide Variety of Amateur Radio: Satellites.



A changed schedule to 26-31 December 2021, the International Space Station (ISS), Expedition 66, was broadcasting a series of Slow Scan TV (SSTV) images around the world. — Image captured by K3URT at his QTH FN10og as it flew overhead, 30 December, 0901L. SSTV mode PD120, 145.8 MHz FM. He used an external ¼ wave ground plane antenna. His visiting granddaughter was impressed. ■

John R. Miller, WN3V, SK

A well-known local ham from Liverpool, Perry County, passed away 23 December 2021. John was first licensed as WA3OVD in 1970.

He particularly enjoyed operating in CW (Morse Code) and flying.

Full obituary: tinyurl.com/25xd2yk2 ■

Winlink Thursdays to resume January 20.

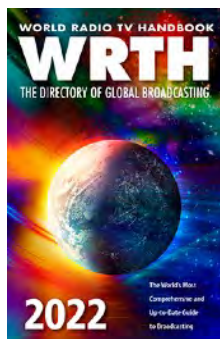
Please mark down the date in your calendar and join us in practicing your emergency communications skills.

Over the holidays, the ETO team was hard at work coming up with new exercises for 2022.

For some of the exercises in 2022, we will offer options for both beginning and experienced operators.

If you have ideas about an exercise you would like to see us do, please send email to:

feedback@EmComm-Training.groups.io
Questions about this group can be sent to:
main+owner@EmComm-Training-groups.io ■



The World Radio TV Handbook will cease publication.

The authoritative bible and companion for Amateurs, Shortwave Listeners, and DXers for 76 years will end after 2022. Announced 9 December 2021 by publisher Nicholas Hardyman, it will cease publication after the 2022 edition. The shift to online listening and free information via the Internet was cited as part of its demise. WRTH: wrth.com — various sources. ■

NEWS • COMMUNIQUES • MESSAGES • DISPATCHES • QST • REPORTS • TALK

HRAC 2022 WinterFest Made Successful in large and small by:

K3RTS, Bob*
 K3SWZ, Glenn
 K3URT, Curt*
 KA1YSR, Chuck
 KC3MFJ, Adam
 KC3MG, Dave*
 KC3NRK, Frank
 KC3WEB, John
 KD3MAD, Mike
 KZ3KBD, Kendra
 W4NKC, Tim
 WB3BKN, Terry

*Also, Friday crew.

See page 9 for select photographs. ■

Central Pennsylvania SkyWarn Net EOY Report

Many HRAC members are active Net ops heard Wednesdays at 2100L on W3ND repeater 145.110-PL 131.8. A significant addition to the net was the UHF link set up by **Greg, K3HOT**, allowing the State College area to participate, cross-banding the VHF repeater to 443.425 MHz UHF.

In the past ten years, the group has expanded to 16 counties, had four net control operators, logging 2,015 check-ins for the year. Plus 14 weather activations with 144 watchers and eight mobile spotters sending in reports from 17 central Pennsylvania counties, two Maryland counties, three from three other states. — *Amalgated reports from: Richard, KB3YRC, net scribe, and Dave, W3DMB, chief net control operator.* ■

QSL Card Creator

Question: how to make a QSL Card on the fly. One online resource is RadioQTH.com which allows the creation of a picturesque card with the required contact information. See www.radioqth.net/gslcards ■

"The QSL card is the final courtesy of a contact."

Next Technician Exam Pool Released.

The National Conference of Volunteer Examiner Coordinators (NCVEC) Question Pool Committee (QPC) has released the 2022 - 2026 Technician Class FCC Element 2 NCVEC Question Pool Syllabus & Question Pool into the public domain. It's available as a Word document or PDF. The three graphics required for the new Technician question pool are available within the documents, or separately as PDF or JPG files.

The new pool incorporates some significant changes compared to the 2018 - 2022 pool. Its 257 questions were modified slightly to improve wording or to replace distractors; 51 new questions were generated, and 62 questions were eliminated. This resulted in a reduction of 11 questions, bringing the total number of questions in the pool from 423 to 412. The difficulty level of the questions is now more balanced, and the techniques and practices addressed have been updated.

The new 2022 - 2026 question pool is effective July 1, 2022 - June 30, 2026, and must be used for Technician-class license exams administered on or after July 1, 2022. — *ARRL Bulletin 2 ARLB002, 6 January 2022.* ■

If you know anyone currently studying for the Technician Exam and wanting to benefit from the current test pool, please have them take the test before July 1st this year! The last scheduled HRAC VE testing session for the old Technician Pool will be 18 June 2022.

Newsletter submission guidelines —

Deadline: For the FEBRUARY issue is end of business day WEDNESDAY, 2 February) — sorry, no exceptions!

✓ Articles, photographs, graphics are welcome! *Limited assistance can be provided.*

✓ Cite the source. Permission must be obtained from the author using copyrighted material except "fair use" extracts.

✓ Please proof-read your finalized narrative before submitting. As a practice, the editor will "quote" rather than "correct."

✓ Submit to the email address: HRAC.Newsletter@gmail.com

December 2021 Volunteer Monitor (VM) Program Report from ARRL:

- Operators in Florida, were issued notices for excessive signal bandwidth on 40 and 75 meters, a violation of Section 97.307(a) of FCC rules.
- General-class operators in Florida, Georgia, Utah, and Michigan, received notices for out-of-band SSB operation on frequencies not permitted by their General-class licenses, a violation of Section 97.301.
- Technician-class operators in Maryland, Illinois, Oklahoma, Florida, and California, received Notices for FT8 operation on unauthorized 20- and 40-meter frequencies, a violation of Section 97.301.

Commendations for exemplary amateur radio operation were issued to licensees in these cities: Dahlonga, Georgia; Riverside, California; Swansea, South Carolina; Springfield, Indiana; Mims, Florida, and Raymond, Mississippi.

The totals for VM monitoring in November were 1,901 hours on HF frequencies and 2,784 hours on VHF frequencies and above, for a total of 4,685 hours. A fuller report at: www.arrl.org/news/the-volunteer-monitor-program-report-for-december-2021 ■

SWAP & SHOP SPOT

Per the affirmation of the membership, June 2021 meeting, members may post, **one-time** non-commercial advertisement of items relating to amateur radio, computers, and electronics. "Wanted" advertisements are permitted. Submission of photos are strongly encouraged.

Also, please see posts on the HRAC website and FaceBook™.

HRAC is not responsible for any typographical or other errors. While we endeavor to connect interested parties, all transactions are made exclusively between the buyer and seller. HRAC disclaims all responsibility for any issues arising out of the use of, or reliance upon, this information. ■

The HRAC 2022 WinterFest is over. A complete wrap-up to be published at a later date. In the meanwhile, grab a hot chocolate and enjoy some pics...



John, KC3WEB, and Frank, KC3NRK, greet festival goers at the entrance. — K3URT



Satisfied customers at Sauder Electronics. — K3URT



A vendor prepares his wares. — KC3MG

Winterfest



—Rex Athey



Refreshment exceeded expectations. Homemade muffins by KZ3KBD. — KC3MG

APPLICATION for MEMBERSHIP or RENEWAL



MAIL TO:
Tim Lehman (W4NKC)
PO Box 453
Hummelstown, PA 17036-0453
717-982-8550

— Make checks payable to HRAC —

You can also use PayPal for payment of dues. The club's account is: HRACW3UU@GMAIL.COM The payee will appear as Dave Dormer, our treasurer. If using PayPal, please list the call sign(s) for which you are paying dues and the number of years you are paying in the "note" section of the payment page. Also, if there are any changes to your personal information please either put it in the note section or email the updates to: W4NKC.HV@gmail.com

Membership per year is [] \$15.00, [] \$7.50 if over 65 years of age.

Family Membership per year is [] \$25.00 (Hams must reside in the same household.)

— Membership ends December 31st of the year. —

NAME _____ CALL _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ E-MAIL* _____

ARRL Member? [] Y [] N YEAR FIRST LICENSED: _____

SIGNATURE _____ Date _____



I agree to abide by the by-laws and guidelines of the membership of The Harrisburg Radio Amateur's Club, Inc.

If you recently obtained your first license through our Harrisburg Volunteer Examiner Team, bring your application and CSCE to a club meeting and we will waive the membership dues for your first year of membership!

* **Please note:** the newsletter is only sent in portable document format (PDF), via email, so **a valid, updated email address is important !!!**

Join the Gang!