

## **AARC Meeting Minutes**

8/11/2020

Meeting called to order at 7 PM by Ed Berkowitz, President AARC.  
Meeting held online through Zoom. 28 Attendees.

No picnic in September per Board meeting. There will be a silent auction. John Porter reviewed form for silent auction and he will send out to all members with instructions about a week before the September meeting.

**Larry Eicher reported on speakers scheduled** for rest of year. Asked for any ideas for 2021. See list from previous meeting minutes.

He stated there will be a Technician's class online. It will be a 10 week course starting Wednesday evening, Aug. 26 at 7 PM. Bob Pattison is coordinating class. An email with the details was sent out by Bob Pattison to club members. Request made to post notices on community online and physical bulletin boards and other places around the area to advertise the class.

### **Treasurer's Report – Don Eason:**

Beginning Balance: \$24,247.10

Checks: \$25.00

Deposits: \$60.18 (County picnic refund and \$0.18 Interest)

Ending Balance: \$24,282.28

Don said that club should look into scholarship award, \$500 for this fall to a PVCC student. Don said he would stay on as treasurer for another year, if club agrees. Over next year club can look for volunteer who is willing to train with Don.

### **Report on estate sales – Jim Owen:**

Antenna, butternut vertical, is up for sale, in good condition, \$250-\$300. He still has an Heathkit Apache for sale.

## **Presentation by Ed Berkowitz, N3US, on RF Exposure.**

How to evaluate your station for RF exposure. Based on HamRadioSchool.com information.

FCC Regulations require hams to conduct RF exposure tests per Section 97.13. Tests must be done if PEP exceeds what FCC has in table based on band. For example, for 20 meters, PEP must be greater than 225 Watts.

Need to know maximum power output of transmitter for band, power loss in dB on transmission line. Using online calculators, determine resulting maximum power input to antenna and compare with maximum power permitted.

Per FCC OET bulletin 65, based on computer modeling, could measure field strength using calibrated equipment which is very expensive.

Maximum permissible exposure (MPE) is what FCC is looking at. RF energy is non-ionizing radiation, heats tissues. One MPE value is for occupational/controlled spaces (ham shack) and the other MPE is for general populated/uncontrolled areas like child's room. MPE is measured in mWatts/square cm.

Factors affecting exposure:

- average power at antenna based on coax loss and duty cycle of transmitter.
- Antenna gain
- Operating frequency
- Distance to area of interest.

Ed went through example.

There are calculators online. HamRadioSchool HF/VHF exposure calculation spreadsheet.

Steps to mitigate possibility of exceeding MPE:

- Elevate antenna
- Restrict antenna pointing directions
- Restrict frequency/band use
- Restrict mode use
- Reduce PEP into antenna
- Restrict station operation times.

Questions:

Bill Olesky asked about doing calculations - need once per band.

How is RF exposure limits enforced – mostly on honor system.

## **New Members:**

Club welcomed Tim Freeze, KO4ELL, General class and Don Doughdrill (KN4JZW). Motion by John Porter. to vote in members which was done. Welcome to new members!

## **Misc.**

Dave Damon said there would be a testing exercise this Saturday from 10-12 with APRS. Use 146.730 repeater.

Larry congratulated Jim Owen for getting high number contacts award for VA QSO Party. Bill Pond was high scorer for Greene county while Dennis Terrible was number 1 in Virginia for CW contacts and he ran low power.

Meeting adjourned at 8 PM by Ed.

Respectfully submitted,

Stephen Kramer, Secretary

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**AARC Meeting Attendee List for 8/11/2020.**

**Meeting done on Zoom.**

**28 members present.**

Ed Berkowitz	N3US
Steve Kramer	KN4CJI
Dave Damon	K4DND
Joe DeVincentis	KO8V
Bill Oleksy	KF4IE
Joe Giovanelli	W2PVY
Michael Ellington	KN4BFB
Jin Ellington	KO4EYC
John Porter	KK4JP
Don Eason	N4UVA
Michael Rein	KA4JJD
Dennis Terrible	WR4I
Larry Eicher	K4JZQ
Bill Pond	N0WP
Jim Owen	K4CGY
Ian Callahan	KN4TBG
Jim Wilson	K4BAV
Benjamin Kidd	KG4EIF
Warren	KN4LYF
Tim Freeze	KO4ELL
Mike	KQ9P
Tom Moore	<a href="#">WB5BNT</a>
Kevin Cwalina	K4SHR
Linda Eline	
Mary Loose DeViney	KM4CWP
Joe Greenberg	KJ4PE
Bob Romanko	AK4BR
David Thomas	WD30

