

**DELAWARE-LEHIGH AMATEUR RADIO CLUB
Inc.**

HAPPY NEW YEAR !!!

January 2026

**W3OK
CORRAL**

Club Meeting January 8th, 7 pm at the
Nancy Run Firehouse.
3564 Easton Avenue, Bethlehem, PA 18020
Zoom will be available

January's Program
Barbara Wiemann, W3ATC
Club's Achieves



December Meeting Minutes



Dean, AB3BD, called the meeting to order at 1900.

Pledge of Allegiance was led by Dean.

President's Report: Dean said that he is new to all this and has nothing to say at this time, but next month will.

Announcements: Boob, KE3AW, said about the January VE Session. Since the meeting is 8th, VE Session will be on the 9th at the 911 Center at 7 pm.

Guests: Jon, N3ZIL

Secretary's Report: John, N3IGA, asked if there were any additions or corrections to the Meeting Minutes as printed in the Newsletter last month. A motion to accept the Minutes was made by Adam, N3LAG and second by Diana, KC3ZGQ. A vote was taken and motion was carried.

Treasurer's Report: Larry presented the Treasurer's report for the month of October. Terry, KC3JHT made the motion to accept. It was seconded by Jay, KC3ZFR. A vote taken and motion was carried.

Committee Reports:

Membership: There are 9 Life Members and 125 voting members. That brings a total of 134 Voting members. There are 12 Assoc. Members. That makes a total of 146 members.

Club Station: Looking good. Making sure that everything is ready of WX3MAS Special Event

Tech Committee: No report

Repeater: Working

Website: Nothing to report.

New Business: Dave, N3EYT, talked about the upcoming Christmas City Special Event which is from December 11-

December 14. From 9 am to 5 pm. If things are hopping, then stay longer.

Old Business: None

Adjournment: There being no further business, the meeting was adjourned at 1914 hours.

Program: Club's Holiday Party

John Holmes, N3IGA
DLARC Secretary

CLUB'S HOLIDAY PARTY

If you were not at the meeting, you missed a great party.

Lots of chatting and eating with everyone. There was a variety of foods and deserts.

I would be surprised if anyone left hungry with what was on the table.

There will be pictures in this issue so you may see what you missed.

De John, N3IGA

ANY CHANGES TO YOUR INFORMATION

If you change your home address or your email address, you need to inform me so that your records are up-to-date and correct.

Any help in this matter would be appreciated.

De John, N3IGA Membership Chair



WINTER FIELD DAY 2026

Winter Field Day is sponsored by the Winter Field Day Association. We passionately believe that Ham radio operators should practice portable emergency communications in winter environments as the potential for freezing temperatures, snow, ice, and other hazards present unique operational concerns. WFD is formatted to help increase your level of preparedness for disasters and improve your operational skills in subpar conditions.

To be clear, WFD is an EMCOM exercise, so do not get too hung up on our rules. At the end of the day, your total points do not matter. What you learn during WFD and your ability to adapt and overcome sudden obstacles will help you during unexpected emergencies.

Winter Field Day is held the last full weekend in January. For 2026, it will be held on January 24th and 25th. The 24-hour operational period starts at 1600 UTC (11 am local) on Saturday, the 25th, and ends at 2159 UTC (4:59pm) on Sunday, the 26th. If you want more information about this, you can go to the website, <https://winterfieldday.org> and check out with it is all about. If interested, check the rules out at the same time.

The Club Station will open for this event.

DLARC Board Meeting Minutes

Monday, 17 November 2025

Due to being sick and not getting the Zoom sign-in information, I was unable to attend the Board Meeting to take the minutes.

Jay, KC3ZFR, was nice enough to take the minutes for me. This is what he sent me.

A meeting of the DLARC Board of Directors was at the Milkhouse, with the following in attendance:

Board Members Present:

President, Dean Guth, AB3BD
Vice-President, Jay Reid, KC3ZFR
Treasurer, Larry Butler, KC3JTK
Adam Gauntz, N3LAG
Bill Carlsen, KD3FLY - ZOOM
Steve Harper, W3NAM - ZOOM
Andrew Parker, WV1B
Henry Adam, KD3AFL

Absence:

Secretary, John Holmes, N3IGA
Terry Swinney, KC3JHT (Past President)

Proceedings:

A quorum being present, the meeting was called to order.

President's Report: Dean stated he it seems that the Christmas City Special Event went well with quite a few contacts made. Any additional contact information should be emailed to Adam so he can finish tallying everything and make a final report.

Secretary's Report: John was not present to see if there were any corrections or additions to the minutes as printed in the Newsletter. No motion was made to accept or reject the minutes from last month.

Treasurer's Report: Larry presented Treasurer's report. A motion to accept the report was made by Adam. Second by Henry. Vote taken, and motion carried.

Larry asked for a motion to pay two bills. The first to John, N3IGA for postage, new lock, and keys for the Milkhouse and ARRL postage. The second bill is Terry, KC3JHT, for printing, supplies, and postage. A motion was made by Jay and second by Andrew. Vote taken and motion carried.

Larry then presented the 2026 Budget. He stated that two high costs were postage and awards costs. Larry suggested that we no longer mail out the award certificates as it cost the Club a lot this year.

Bill, KD3FLY, suggested that we create a PDF file of certificates and email them, as he does not feel that people really want the paper certificates and if they would then they can always print them out.

After a lengthy discussion, it was decided to make some adjustments including the increasing the insurance and decreasing the Awards Budget. Adam made a motion to accept the 2026 Budget as amended. Andrew seconded it. Vote taken, motion carried.

New Business:

Henry showed us the sweatshirt he had made with the Club Logo. He suggested a fundraiser to see them at a small markup for the Club. Henry will get the pricing information and Adam asked him to get the information to him so the markup can be determined.

Bill had a few issues to discuss. He said that at the last meeting he would update email forwarding and change the password for the BOD. That has all been done and asked if there any issues. None noted.

Bill said he would be a part of the Budget reports if that is what is wanted.

Bill wanted to talk about On-line Membership. There has been a lot of back and forth about on-line membership applications and making payments. Bill said that there is a lot of essential information that is being collected and getting to John, N3IGA, Membership Chair, and something needs to be change. Do we want on-line membership? The By-laws say a new member prospect needs a sponsor. On-line applications do not provide for that. There is nothing in the By-laws to provide for on-line membership. The other thing is the Forums on the website. It is outdated and obsolete. It is not being used. Do we want to continue it? Discussion followed.

Adam brought up that we need to purchase new fire extinguishers for the Milkhouse. We should have two 10 pound ABC extinguishers. He will look into pricing. Jay said he will also check pricing through the supplier for his fire department.

Dean brought up that we need to find a new Secretary. Dean said that John is resigning for health reasons. It was decided to open this up at the next regular meeting.

Old Business: There was a discussion about the \$000.00 gift donation by an anonymous donor. Larry stated that the donor suggested that the money can be used for the new Satellite Station. Included would be a radio (either an ICOM 9700 or a Yaesu G5500), tripod, cables, hardware, etc. After discussion, a motion to proceed with the donor's wishes was made by Adam and second by Henry. Vote was taken and motion carried. Larry will get together with George, N3SQD, and make this happen.

Dean is in the process of putting together a By-laws Committee. He is waiting for a few people to get back to him and will update us as things progress.

Zoom purchase – There is already a line item in the Budget for this so a motion is not necessary. It was suggested that George be asked to be an alternate for those occasions when Larry is not

available. Henry also said that he runs Zoom meetings for work and would be happy to help out if needed.

Adjournment: Meeting adjourned at 2036 hours.

Minutes respectfully submitted by Jay, KC3ZFR.

NEWSLETTER ARTICLES WANTED

Many DLARC members have discovered various insights to our hobby. Insights which would be of help and interest to other club members. A small article on these discoveries in the newsletter will inform other club members and assist them to the benefits of your expertise.

An article on your favorite part of ham radio and how you go about enjoying it, for example, QRP or even FT8 operations, as chasing DX or building items for your shack.

This is another way to share your interests with other club members and to find another member with your interests.

This article need not be long or high tech, but just a way to spread such information to other club members and find someone else to share your enthusiasm. It could open a window for a new ham or even re-open an old window for the long-time ham. It would be a good way to share the wealth of knowledge within our club.

de John/N3IGA, Editor

ARRL AND RENEWALS

Since there were a few new members at every meeting, I thought it was time to talk about ARRL membership.

All ARRL members need to check their QST mailing slip to see when their membership expires. Now members have to decide on what they want to do.

By now, you should know that the price of membership went up a few years ago. The biggest change is that if you want to continue getting QST or On the Air magazines in the printed form, it will cost you \$25 per magazine. If you are willing to get those magazines in digital form, there are no extra cost

You have a choice in how many years you want your membership. One year is \$59 and 3 years is \$175. You still have to pay \$25 a year for the printed form of the magazines.

The Club benefits from ARRL membership by getting a commission on new members and members that renew. It is not much, but every little bit, it helps the Club. In order to be an Affiliated Club, you need to have at least 51% of the voting members be Full members in the Club. At least 51% of the voting members must be licensed radio operators.

If you have any questions, feel free to contact me at n3iga@ptd.net and I will try to answer your questions.

De John, N3IGA

DLARC ARRL Membership Liaison

Aferiy P010 Power Station / UPS

By Barry G. Kery, KU3X

I was in the need of a replacement UPS for the primary station. I am now using a Tripp-Lite Smart 1500 LCDT, 900-watt UPS. This UPS more than fits my needs but what I don't like about it is that every three years I have to replace the two 9 ah SLA internal batteries. A pair of batteries costs in the range of \$50. I am tired of spending \$50 every three years and going through the labor of changing the batteries. SLA batteries should last between 4 to 5 years.

Why do I need a UPS for the primary station? The answer is so I don't brick a radio. I use the RT software for programming most of my radios and also for backing up each radio with the same software. If uploading a file to the radio and the power goes out halfway through the process, you can brick the radio. When doing firmware updates and the power goes out half way through the process, you will brick your radio. This is not an easy fix. You probably will be sending your radio back to the manufacture for repairs. I uploaded a file from the micro-SD card that is mounted inside of my Icom IC-705 and half way through the process something went wrong. The radio was bricked. It cost over \$600 to repair the radio which was covered under the warranty. There was no power outage, something just went wrong.

Doing some research for a replacement of my UPS that uses better batteries, like the LiFePo4 batteries, I decided to look into power stations. The issue I ran into with most power stations is the switchover time from when a power outage happens. Most power stations have a slow switchover time. They can range from 20 ms to over 40 ms. This is too slow. You want to have a switchover time of 10 ms or less. If you are using a laptop computer and a linear power supply, you can

probably get by using one of the slower switchover power stations. The laptop's internal battery will take over if the power goes out and the capacitors in the linear power supply should hold enough charge to cover the 40 ms or less switchover time.

What I found that has a switchover time of 10 ms was an Aferiy P010 power station. I already own and reviewed, in the club's newsletter, the Aferiy P210 and found it to be a great power station and can also double as a UPS.

The Aferiy P010 is an 800-watt power station that is rated at 512-watt hours.



The P010 is a great power station and also serves as a UPS with a switchover time of 10 ms or less. The Tripp-Lite UPS that I have has about a 75-watt hour battery capacity. The P010 is rated at 512-watt hours and that is more than six and a half times the capacity of my Tripp-Lite UPS. The Tripp-Lite sells for around \$279 on Amazon and the P010 sells for \$329 on the Aferiy web site w/free shipping and a 7-year

warranty. Black Friday sale on the Aferiy site was \$269 and \$259 on Amazon.

The big advantage the P010 has over my Tripp-Lite are the batteries. The Aferiy uses LiFePo4 batteries that should last more than 10 years. When LiFePo4 batteries are used, once the batteries are fully charged the BMS (battery management system) stops the batteries from being charged. If the power never goes out, the batteries will hold a full charge for a very long time. There is no need to keep a constant floating charge on these types of batteries. This means you are not cycling the batteries since they are not even being used. Whereas the SLA batteries will self-discharge while not being used. As they self-discharge, they are being charged and kept on a floating charge while not in use. This puts wear on the batteries and they won't last very long. Trickle charging causes slow electrolyte loss due to electrolysis.

The Tripp-Lite UPS, in a stand-by mode (no load) is continuously drawing 25 watts of power off of the AC power grid. Since the batteries in the P010 are not kept on a floating charge, it draws less current off of the power grid. It only draws 4 watts in a no-load condition.



The bottom left corner of the display shows the power station is in the UPS mode. A few items in the radio shack are on line showing its load on the power grid is 112 watts.

The only way to find out if the changeover time of 10 ms is sufficient is to disconnect the Aferiy from the power grid while

under load. I have my desktop computer as well as my laptop computer plugged into a power strip that is plugged into the Aferiy. I also have other items on the same power strip as well as my Kenwood TS990S. I keyed the TS990 in the RTTY mode at 200 watts out into a dummy load and with everything else also running I put a 700-watt load on the Aferiy. I then reached under the desk and pulled the AC plug out of the wall socket. Not even a flicker, everything kept running, desktop computer included. Everything in the shack that runs off of 120 volts AC goes through my UPS. The KPA500 is on its own 120-volt line as well as my home brew amps that run on 240 volts.

There is only one downside of using the P010 over the Tripp-Lite, “there is no surge protection built into the Aferiy.” You should plug the Aferiy into a surge protector. AC line surge protectors are very inexpensive. I just ordered one off of the Home Depot web site and it only costed \$11 with free shipping. It is rated at 1000 Joules. The surge protection in the Tripp-Lite is only rated at 650 Joules.

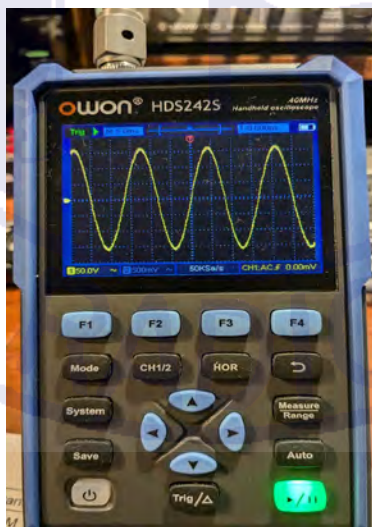
The Tripp-Lite UPS is designed to be strictly used as a UPS. But the Aferiy P010 can not only be used as a UPS, but as a power station as well. With 800 watts of available power and 512-watt hours of capacity, you should be able to operate your radio at full power out as well as your laptop for logging while activating a POTA station or camping for an extended period of time. Operating continuously for over 6 hours is not out of the question.

The P010 has two USB A and three USB C charging ports. Two of the USB C ports are rated at 20 watts while the third is rated at 100 watts. I use the 100-watt USB C port to charge and power my laptop while working portable. It also has one 12-volt outlet that can supply up to 10 amps and one coaxial type socket rated at 3 amp. You cannot create a wiring harness and use both 12-volt outlets to get 13 amp of supply current.

Both outlets are on the same 10-amp internal circuit breaker. I was able to run my Yaesu FT-991A at 70 watts out using SSB while calling CQ with the internal digital voice recorder and not trip the breaker on the DC output socket. If you plug an AC to DC power supply into the Aferiy you will have no problem running a full 100 watts out of your radio.

And this brings me to the only minor downside of the P010. That is, it only has one AC outlet. By itself, while activating a POTA station, this limits you to only one item that uses AC power. The simple fix is to bring along an AC adapter or power strip to increase the number of outlets. Since you may want to plug in your power supply for the radio as well as your laptop computer, without an AC adapter you can only plug one item directly into the Aferiy's AC socket. You can plug your radio directly into the 12-volt 10-amp socket and also plug your laptop into the AC socket. You can actually use every socket on the Aferiy at one time if needed.

The Aferiy is a pure sine wave power station without any RFI issues.



At 14 pounds, the Aferiy is not too heavy to carry along if you go portable.

The power station can be charged three different ways. One way is off of your AC outlet in your home, the second via solar panels and finally from your vehicles 12 power outlet. From your home's AC outlet, it takes about 1.5 hours to be fully charged if the internal batteries are depleted. The power station draws 400 watts of power when charging off of the power grid.

If you want to operate your radio portable at 100 watts out and want to power it directly off of a power station, take a look at the Aferiy P110. This model, like my P210, has an XT60 socket that supplies 12 volts at 25 amps so no external power supply is needed. It also doubles as a UPS and has four AC outlets. Both the P010 and the P110 are great to be used around the house if the power goes out. It goes without saying, the bigger the power station the longer you can go without grid power.

For the price of the Aferiy you get a lot for your money. You get a high-capacity UPS and a power station that can be used for many purposes. If all you really need is a UPS that you do not have to replace batteries in every few years, you can get a stand-alone UPS that uses LiFePo4 batteries. From what I found while doing research for this article, a Golde Mate UPS that has a rating of 230.4-watt hours, 800 watts and sells for \$219 on Amazon. The Golde Mate UPS ties into your computer and if the power goes down, it can tell the computer to shut down. The Aferiy does not offer this feature.

PICTURES FROM HOLIDAY PARTY

FROM DAVE, N3EYT







MEMBERSHIP DUES ARE DUE!

DLARC membership is due for 2026. The best way to renew is to log in to DLARC.club, click on the "Members" menu item, go to "Renew membership" tab and click the "Join or Renew" button at the appropriate member level. Check that your information is up to date and remit a payment via PayPal. A PayPal account is not required for the transaction. If you need online help, please contact the webmaster via email or at the monthly meetings.

DLARC Membership Dues Rates:

Regular Membership

18-64 years of age Jan through Dec - \$25

65 and over or retired from all forms of employment (no age limit) Jan through Dec - \$20

Additional Family member each - \$5 **Please identify who the Family Member is.**

Associate Individual Membership - \$15.

If you need to pay by checks payable to D.L.A.R.C. and ensure that your callsign appears in the memo field. Paying with cash is discouraged, but if you really, really must, kindly make certain you are prepared with the correct sum according to the rate table shown above.

If mailing, send to;

Lawrence R. Butler
800 Maple Lane
Easton, PA 18045

Enclosing an S.A.S.E. will bring your new membership card back to you as soon as possible via mail. You may write to me anytime with questions regarding DUES, or to discuss issues that you believe are my responsibility at lrbutler@ptd.net include your phone number if you prefer a live reply.

De Larry, KC3JTK, DLARC Treasurer

DLARC NETS AND EVENTS CALENDAR

January 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1 HAPPY NEW YEAR	2	3
4	5	6	7 7 pm DLARC NET	8 CLUB MEETING 7 PM	9 VE SESSION 7 PM	10
11	12	13	14 7 pm DLARC NET	15	16	17
18	19	20	21 7 pm DLARC NET	22	23	24 WINTER FIELD DAY
25 WINTER FIELD DAY	26	27	28 7 pm DLARC NET	29	30	31

WEDNESDAY NIGHT NETS

Additional Net Controls are needed for the Wednesday Night ARES, RACES & DLARC net. If we have enough interested operators, it will only be necessary for each operator to have only one net session in each three-month period. 13 weeks in a period, then 13 net controls would be ideal, and some extras to fill in if needed.

This would give us a pool of experienced controls, for any emergency which would arise. Interested operators should contact George, N3SQD at george@bioserv.com. The NIMS IS-700 and ICS-100 courses are not needed to be a net control, but should the need arise, and we do supply controls and operators for real emergencies, then the courses requirement will be in effect and EMA issued IDs will need to be on the scene of an emergency.

NORTHAMPTON COUNTY ARES, RACES AND DLARC NET

All Radio Amateurs are welcome to take part in the ARES, RACES and DLARC net. This net meets Wednesday at 1900 hours local time, on the W3OK Repeater 51.76, 146.70 and 444.90 (pl 151.4). With an alternate frequency of 147.135 + DPL 315) W3OI Repeater. Other inputs are the 146.85 repeater, (151.4 PL) and Echolink at K2PM-R.

QCWA Chapter 17 holds a net Monday evening at 7:30 PM on 3958 +/- depending on conditions.

Mid-Atlantic D-Star Net meets each Tuesday at 7:30 PM. The following repeaters Dstar repeaters are available in the Lehigh Valley.
W3OK -145.11000MHz -0.600 Port C – W3OI -147.16500MHz +0.600 Port C, – W3OI - 445.02500MHz -5.000 Port B

All repeaters on the net are linked through **Reflector 020 port A**, so all stations checking into the net should make sure that they have *their local repeater call sign followed by the letter "G" in the eight positions of the RPT2 field*. Otherwise, you will only be heard locally and not over the Reflector. Dongle users wishing to check into the net should Log On by connecting directly to Reflector 20, port A, rather than through your local repeater to conserve local bandwidth.

EXECUTIVE COMMITTEE 2025–2026

OFFICERS

President – Dean Guth / AB3BD ----- president@dlarc.club
Vice President – Jay Reid / KC3ZFR ----- vice president@dlarc.club
Secretary – Diane Lambert / KC3ZGQ ----- secretary@dlarc.club
Treasurer – Larry Butler / KC3JTK ----- treasurer@dlarc.club

BOARD of DIRECTORS

Adam Gauntz / N3LAG
Bill Carlsen / KD3FLY
Steve Harper / W3NAM
Andrew Parker / WV1B
Henry Adam / KD3AFL
Terry Swinney / KC3JHT (Past Pres.)

PHONE NUMBERS FOR THE EXECUTIVE COMMITTEE OF THE DLARC CAN BE FOUND ON THE WEBSITE / MEMBERSHIP LISTING CLUB MEETINGS.

All regular meetings of the D.L.A.R.C. are held on the first Thursday of each month at 7 PM at the Nancy Run Firehouse. TALK IN ON 146.700 (PL 151.4)
Club Station Telephone Number **484-291-1527** Email Address – W3OK@arrl.net

THE W3OK TRUSTEE --- Barry Vogt / N3NVA

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DELAWARE - LEHIGH AMATEUR RADIO CLUB INC.

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