

2024

June

LINCOLN LOG

Lincoln Amateur Radio Club



The ARRL, LARC, NeARES & LEMA Present:

Open to the Public

Field Day 2024

Open to the Public

June 22nd @12:00PM - June 23rd @ 12:00PM

VE TESTING
Saturday @ 2:00PM
in the building

LARC CLUBHOUSE

Talk in on
KØKKV
146.760-

4420 NW 41st Street. Lincoln, NE

Saturday Dinner @ 5:30PM - Sunday Breakfast @ 7:00AM

NeARES will supply the Hamburgers, Hotdogs and Buns.

*POTLUCK
Bring something to share!*

Operating 3A the stations include:
1 covering 10,15 & 20 all modes.
1 covering 40 SSB and CW and
1 covering 80 SSB and CW.

*POTLUCK
Bring something to share!*

We'll also have the GOTA Station covering 10, 6, 2 and 70 all modes.

ARRL Field Day is the single most popular on-the-air event held annually in the US and Canada. On the fourth weekend of June of each year, thousands of radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations.

Field Day is a picnic, a campout, practice for emergencies, an informal contest and, most of all, FUN!

It is a time where many aspects of Amateur Radio come together to highlight our many roles. While some will treat it as a contest, other groups use the opportunity to practice their emergency response capabilities. It is an excellent opportunity to demonstrate Amateur Radio to the organizations that Amateur Radio might serve in an emergency, as well as the general public.

For many clubs, ARRL Field Day is one of the highlights of their annual calendar.

Contacts: Ed, KØRPT @ k0rpt@arrl.net & Shaun, KØSMM @ k0smm@arrl.net



LARC Meeting

Wednesday, June 12th - 19:30

LARC Clubhouse | 4420 NW 41st St, Lincoln, NE

Emergency/Priority Traffic

Eric Bigham, KØJIA

June's club presentation will be about emergency and priority traffic. Even in this modern era, such traffic remains essential to amateur radio and its continued success on the airwaves. In this presentation, you will hear about the the dos, the don'ts, best practices, & misconceptions with traffic and may also help work out a few nerves with ARRL Radiograms!

Calendar

June

06. Th 18:30 VE Exams College View Church 4801 Prescott Ave
12 We 19:30 LARC Meeting LARC Clubhouse 4420 NW 41st St
 13. Th 19:30 SATERN Meeting Salvation Army 2625 Potter St
 19. Su 17:00 LARC Board Mtg LARC Clubhouse 4420 NW 41st St
22-23 .Sa, Su Field Day LARC Clubhouse 4420 NW 41st St
25 Tu 23:59 LOG Deadline Email articles & ads to log@k0kkv.org

July

10 We 19:30 LARC Meeting LARC Clubhouse 4420 NW 41st St
 11 Th 18:30 VE Exams College View Church 4801 Prescott Ave
 11 Th 19:30 SATERN Meeting Salvation Army 2625 Potter St
13-14 .Sa, Su 06:00 Cornhusker State Games
 14 Su 17:00 LARC Board Mtg LARC Clubhouse 4420 NW 41st St
20-21 .Sa, Su 06:00 Cornhusker State Games
30.Tu 23:59 LOG Deadline Email articles & ads to log@k0kkv.org



2024 Board of Directors

President	Aaron Rogge.....	NØADR	402/617-0234 ...	n0adr@ajrogge.com
Vice President	Ed Holloway	KØRPT	402/326-1139 ...	k0rpt@arrl.net
Secretary	Kim Cartwright.....	KEØTNR	402/430-1506 ...	kcdragon3@gmail.com
Treasurer	Alex Lewis	W3ALX	402/202-8830 ...	alex.w3alx@gmail.com
Member	Shaun Munson.....	KØSMM	402/853-6523 ...	k0smm@arrl.net
Member	Bryan Leavitt.....	WØBCL	402/310-1686 ...	w0bcl@arrl.net
Member	Roark Pyle	WØLNE	402/318-1452 ...	w0lne@arrl.net
Member	Kenneth Cohn	KCØHN	402/310-8526 ...	kc0hn.ne@gmail.com
Club Station Trustee.....	Greg Brown	KTØK.....	402/937-3540 ...	kt0k@arrl.net

2024 Committees (Committees may be subject to change)

Committee	Liaison..	Chair	Phone	Email
Activities	KØSMM	Ken Cohn, KCØHN	402/310-8526 ...	kc0hn.ne@gmail.com
Awards	KEØTNR	Ed Holloway, KØRPT	402/326-1139 ...	k0rpt@arrl.net
Audit	W3ALX.....	Greg Brown, KTØK	402/937-3540 ...	kt0k@arrl.net
Bylaws.....	NØADR.....	Alex Lewis, W3ALX.....	402/202-8830 ...	alex.w3alx@gmail.com
Club Inventory	KØSMM	Kim Cartwright, KEØTNR	402/430-1506 ...	kcdragon3@gmail.com
Club Station.....	KØRPT.....	Greg Brown, KTØK	402/937-3540 ...	kt0k@arrl.net
Education	NØADR.....	Bryan Leavitt, WØBCL	402/310-1686 ...	w0bcl@arrl.net
Estate Assistance	KØRPT.....	Shaun Munson, KØSMM	402/853-6523 ...	k0smm@arrl.net
Field Day	KØRPT.....	Shaun Munson, KØSMM.....	402/853-6523 ...	k0smm@arrl.net
Holiday Party.....	NØADR.....	Ed Holloway, KØRPT	402/326-1139 ...	k0rpt@arrl.net
LOG Editor	WØBCL	Jean Leavitt, KØJSL	402/310-9964 ...	log@k0kkv.org
Mentorship	KØSMM	Greg Brown, KTØK	402/937-3540 ...	kt0k@arrl.net
Public Relations.....	KØRPT.....	Shaun Munson, KØSMM	402/853-6523 ...	k0smm@arrl.net
Public Service.....	KCØHN	Aaron Rogge, NØADR.....	402/617-0234 ...	n0adr@ajrogge.com
QSL Cards	W3ALX.....	Greg Brown, KTØK	402/937-3540 ...	kt0k@arrl.net
Tower/Antenna Crew....	KØRPT.....	Shaun Munson, KØSMM	402/853-6523 ...	k0smm@arrl.net
Transmitter Hunts	KØSMM	Kim Cartwright, KEØTNR	402/430-1506 ...	kcdragon3@gmail.com
TVI/RF.....	KØRPT.....	Shaun Munson, KØSMM	402/853-6523 ...	k0smm@arrl.net
Website	W3ALX.....	Aaron Rogge, NØADR.....	402/617-0234 ...	n0adr@ajrogge.com



President's Message
Aaron Rogge, NØADR,
LARC President

What a spring! After a quiet year last year, we have had two storm call-outs, some tornadoes, and plenty of strong storms to keep us on our toes – a big

thank you to all the storm spotters.

The Lincoln Marathon was a success. Thank you to all the hams who came out to help ensure a safe event. It was a beautiful morning for a run and to be outdoors.

Another successful Hamfest is in the bag. We had a big turnout. Thank you to all of the volunteers who helped everything to run smoothly.

Next, we have Field Day, June 22-23. Be sure to check out the flyer for a complete listing of what is happening. Field Day is an excellent opportunity to invite and share your hobby with friends and family. It is also an opportunity to get hands-on experience working with other hams to set up the antenna systems and radios. And, while you are at it, you can spend some quality time with your fellow hams enjoying this amazing hobby.

This year is the 40th anniversary of the Cornhusker State Games, which will run from July 11-21. Check out the article later in this issue for where we will need volunteers and how to sign up to help. LARC has been a part of the games since they began. Thank you for helping continue the tradition.

73, NØADR

ARRL Contest Calendar
ARRL

June

- 1-2 International Digital Contest
- 8-10 June VHF
- 15 Kids' Day
- 22-23 Field Day

July

- 13-14 IARU HF World Championship

Log Folding

Jean Leavitt, KØJSL

Thank you to the May LOG folding crew: Jason Hutmacher, Suzanne Lindgren, Jon Peterson, Ayden Rogge, Liam Rogge, WDØEZI, KØFTZ, KCØHN, NØJLR, KØJSL, KRØKAT, KØKPH, and NEØTM.

Join us for the next folding session!

Date: Monday, July 1, 2024

Time: 6:30 pm

Location: LARC Clubhouse, 4420 NW 41st St

Lincoln Marathon

Aaron Rogge, NØADR

A big thank you to the following hams who helped out with the Lincoln Marathon: NØADR, KDØBXA, NØHDG, KØJIA, KCØHN, NØJLR, KRØKAT, NØLBC, KØNC, KØNEB, KDØONM, KDØONQ, KDØPTF, KDØRIY, KØSHC, NEØTM, and AEØZ. It was a beautiful day for a run, and the event went smoothly. Thank you for the part each of you played in helping ensure a safe event.

Cornhusker State Games

Aaron Rogge, NØADR

Mark your calendars! The 2024 Cornhusker State Games are coming up fast. The 40th Anniversary of the Games is scheduled for July 11-21, 2024, at more than 70 sites in Lincoln, Omaha, and surrounding communities.

Opening night, July 11, will once again be held at Pinnacle Arena, and we will not be involved. We are scheduled to help with Mountain Bike (July 13), Gravel Grinder (July 20), Road Race (July 20), and lunch deliveries (July 13-14 and July 20-21). A sign up form is available at: <https://bit.ly/LARC-CSG>.

The Cornhusker State Games is Nebraska's amateur sports festival. The sports offered provide a broad appeal to athletes of all ages and abilities, ranging from highly competitive Olympic sports to those that are more recreational and geared to participation. There's something for everyone!

The Cornhusker State Games, organized in 1985, have become a midsummer tradition, attracting thousands of Nebraskans from throughout the state to Lincoln.

The main mission of the Cornhusker State Games is to offer good, wholesome, family-oriented activities and abundant fun. Beyond that, the organization takes pride that its competition exposes a multitude of Nebraskans to the benefits of physical fitness, well-being, and good sportsmanship.



ARRL Systems Disruption

ARRL

This update is from May 29, 2024. ARRL previously reported that we are responding to a serious incident involving access to our network and headquarters-based systems. Several services have been affected, including those administered by the ARRL Volunteer Examiner Coordinator (ARRL VEC).

Exam registrations and Materials.

ARRL Volunteer Examiners (VE's) should continue to submit exam registrations and material requests. While we are unable to post new or revised exam session dates and details to the website, we can ship out exam materials.

Processing Applications to the FCC.

We have resumed the processing of Amateur Radio License applications with the FCC. This includes applications for new and upgrade licenses, individual applications, and club license applications. Exam sessions will be submitted to the FCC in chronological order, from earliest test dates to the latest. Please allow additional time for our processing as the exam session backlog is cleared.

International Radio Permit and License Class Certificates.

We are currently unable to create International Amateur Radio Permits, License Class Certificates, and Volunteer Examiner (VE) badges, certificates, and stickers. New ARRL VE applications and renewals are unable to be processed at this time.

ARRL Youth Licensing Grant Program|FCC Application Fee Reimbursement Information

ARRL is continuing to accept reimbursement forms to cover the one-time \$35 application fee for new license candidates younger than 18-years of age for tests administered under the auspices of the ARRL VEC Reimbursement checks may

take longer than normal to be processed at this time.

There has been no disruption to the @arrl.net email forwarding service, though forwarding email addresses and aliases cannot be modified at this time.

ARRL VEC cannot be reached by telephone at this time. We appreciate your patience as ARRL continues to work on restoring access to affected systems and services.

Storms and Tornadoes: Amateur Radio Ready

ARRL

Strong storms and at least 60 tornadoes wreaked havoc in the central US for nearly 2 weeks last month. On May 1, a major disaster was declared for Oklahoma. ARRL Iowa Section Manager Lelia Garner WA0UIG, reported that in the state they have moved from response to recovery.

Garner said "Amateur radio has served our local agencies well". She stressed that amateur operators and ARES members work to help the National Weather Service and other served agencies in order to make their work and the community safer.

ARRL Emergency Management Director Josh Johnston, KE5MVH, agrees that everyone should stay vigilant in their awareness and preparations, even during periods of less activity. Your safety is the most important thing if you plan to be active during a severe weather event.

Some of the most important aspects of preparation are communication and building relationships. These activities, including drills and exercises, ensure you will be ready for severe weather.

Equipment For Sale

Ed McCranie



condition: [like new](#)
make / manufacturer: Kenwood
model name / number: TS-590S

These have been boxed up for most of the last 10 years while my brother was in nursing home. The radio has less than three months actual usage since purchase. He actually passed 2 1/2 years ago and they need to find a home with severe weather season coming. The original invoice was over \$3000.00 for these items when new.

Kenwood TS-590S All Mode Transceiver
Kenwood SP-23 speaker
Kenwood MC-60 Dynamic mic
MFJ Enterprise 4225 5KV Switching Power Supply
HM-102 Standing Wave Ratio meter

edmccranie@yahoo.com

402-304-1777

Eric Schoenleber

For sale or trade:

FTM-7250DR in perfect operating and very good physical condition.

\$250 or trade for one of the following, in descending preference:

Yaesu FTM-500DR - plus cash

Yaesu FTM-6000R

Icom IC-7100 plus cash

Icom ID-5100A plus cash

Icom ID-2730A

Alinco DR-735T

k0mtv73@gmail.com



NETS

Paul Mundt, KF9TV

The Lincoln Amateur Radio Club offers daily nets that welcome hams. The nightly ARES Net is daily at 21:00 local time.

There is also a Lunch Brunch Net on Monday, Wednesday, and Friday at 12:00. This is an informative and fun net, once again open to all. These nets are on 146.76 and 442.7 MHz.

Join us if you can!

Field day setup

Shaun Munson

Looking for folks to help with field day setup on Friday the 21st from 12 to 5 pm
Great opportunity for new hams to experience setting up emergency antennas and equipment please email or call.

k0smm@arrl.net

402-853-6523



VE Report

Chris Evens, KCØPJR, VE Coordinator

May VE Session

May turned out to be a busy month with our 2 sessions. The first one being our normal session at the College View Church and the second session at Lincoln HamFest.

Unfortunately for those who took their exams at the Lincoln HamFest, those licenses still have yet to be issued. This happening right at the same time that the ARRL had it's data breach.

For the two sessions this month, we had a total of 14 candidates. Of those 14, only 11 passed an exam for a new or upgraded license. They are as follows:

TECHNICIAN

- Steven Juett, (Pending), Genoa
- Nicholas Lee, (Pending), Lincoln
- Edward Mark, (Pending), Exeter
- John Smith, (Pending), Bennington
- Jody VanCleave, KFØQIA, Papillion
- Dick Vandenberg, (Pending), Columbus
- Rizvai Wick, (Pending), Lincoln

GENERAL

- Sammy Alexander, KFØQGP, Eagle
- Lilian Mundt, KC9OCF, Lincoln

EXTRA

- Paul Ahrens, KFØQGU, Crete
- James Lauer, KFØKZW, Kearney

Congratulations to our new licensees! Volunteer Examiners (VE's) who participated this month are:

KØNC, KCØDHM, KCØHN, KCØPJR, KJØHN, NEØTM, and WØBCL. Thank you to all for giving your time to promote and advance the great hobby of Amateur Radio.

Salvation Army Donut Day

Chuck Bennett, KDØPTK

Friday, June 7, 2024



National Donut Day was established in 1938. Lincoln SATERN, KØSAL, will celebrate this annual event with a special event station, 10:00 – 17:00 CDT on 14.265 and 7.265. The special event is listed on arrrl.org special event web site at www.arrrl.org/special-event-stations.

The Salvation Army is responsible for popularizing the donut in the United States. During World War I, Salvation Army volunteers made donuts as a quick and easy treat to remind United States Forces of the comfort of home. The women responsible for creating these tasty snacks became affectionately known as "Donut Girls", or "Donut Lassies". Scarce ingredients and cooking tools sometimes meant these resourceful chefs had to get creative, resorting to using shell casings and wine bottles as rolling pins, and cutting donut holes with coffee percolator tubes or baking powder cans.

When the soldiers came home, they remembered their sweet treats, and thus began the donut craze.



How Amateur Radio Works (HARW)

Bryan Leavitt, WØBCL Transformers

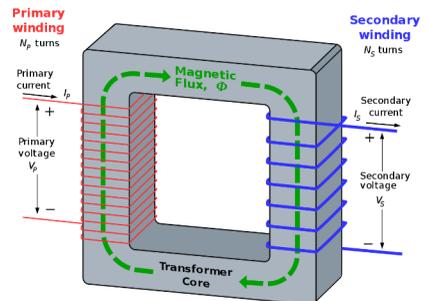
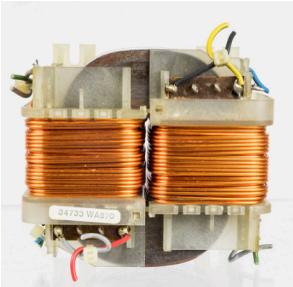
What are they? What do they do? Transformers are essential for our modern society, they are why alternating current (AC) is used for power distribution worldwide. There are multiple transformers between your house and the power plant. You probably have at least a dozen transformers in your house. Got a doorbell, TV, computer, furnace, AC, power supplies, etc. They likely have at least one transformer as part of their components.

Electromagnetic radiation has two components, an electric field and a magnetic field. Transformers work with the magnetic field. When current flows in a wire a magnetic field is generated. Transformers have at least two coils of wire inside them, primary and secondary, and the current flow in the primary coil generates a magnetic field that induces current flow in the secondary coil. In most, but not all, transformers there is no electrical connection between the coils, power is transferred solely by the magnetic field. The ratio between the number of turns of wire in the primary and secondary coils determines the input to output voltage.

Transformers are power conserving, power in equals power out. In reality some power is lost as heat. Modern transformers are designed to minimize this loss but all transformers are less than 100% efficient. Power (P) = voltage (E) times current (I), transformers can change or transform the input voltage and current to a different output voltage and current. For example you have a power supply that can supply 30 amps at 13.8 volts to run your base station, and you need to know how much current the power supply will draw, at maximum output, from the 120 volt outlet it is plugged into.

Assuming a perfect power supply and transformer, (transformer is inside the power supply), then power in = power out. Power out = $30 \times 13.8 = 414.0$ watts, using $P=EI$ and solving for I then $I = P/E = 414.0 / 120 = 3.45$ amps. In reality the current draw from the outlet will be higher because of internal losses in the power supply.

Transformers only work with AC they will not change DC. Transformers can also change impedance and are widely used in amateur radio for this purpose. One example is matching the 50 ohm output of your transceiver to 450 ohm ladder line.



© Raimond Spekking / CC BY-SA 4.0 (via
Wikimedia Commons)

BillC at the English-language Wikipedia

Estate and Equipment Sales

Gordon Trout, WØKBS

KØCWW

Category	Item	Brand	Model	Description	Asking
Accessories	302	Heathkit	HD-1422-A	Antenna Noise Bridge	\$25.00
HTs	319	Kenwood	TR-2500	2 meter handheld AS-IS	\$20.00

KAØJGH

Category	Item	Brand	Model	Description	Asking
Accessories	205	EF Johnson		Speaker	\$10.00
Accessories	211	Kenwood	MB-100	Mtg Brkt for TS-120 and TS-130	\$10.00
Amplifiers	217	TE Systems	0510G	50 MHz 175 watts mobile amp	\$250.00

LARC

Category	Item	Brand	Model	Description	Asking
Tuners	3	MFJ	MFJ-969	Deluxe Versa Tuner	\$175.00
Accessories	10	MFJ	MFJ-864	HF/144/440 SWR Meter	\$80.00
Tuners	11	MFJ	MFJ-945E	Mobile Tuner	\$125.00
Accessories	12	MFJ	MFJ-921	144/220 200 Watt SWR Meter	\$90.00
CBs	13	Radio Shack	21-1702	CB Radio	\$20.00
CBs	14	Radio Shack	21-1702	CB Radio - bad pwr plug	\$15.00
Misc	17	Kenwood	LF-30A	Low Pass Filter	\$20.00
Antennas	20	RadioWavz		20 Meter Dipole	\$45.00
Antennas	21	RadioWavz		40 Meter Dipole	\$50.00
Misc	24	MFJ	MFJ-5124K	Autotuner MFJ-993 to Kenwood	\$55.00
Antennas	26			Mobile Antenna CB	\$10.00
Antennas	27			Mobile Antenna CB	\$10.00
Antennas	28			Mobile Antenna CB	\$10.00
Accessories	105	Kenwood	LF-30A	Low-pass filter	\$25.00
Power Supplies	155	Power-One	HD15-6-A	15v-6amp power supply	\$25.00

WØDDM

Category	Item	Brand	Model	Description	Asking
Accessories	405	Daiwa	CN-103	140-525 MHz SWR & Power Meter	\$75.00
Accessories	410	Kenwood	VFO-820		\$150.00
Accessories	411	Kenwood	VOX-3	VOX Controller	\$50.00
Accessories	412	MFJ	LSP-520BX II	Super Logarithmic Speech Processor	\$25.00

Estate and Equipment Sales

Gordon Trout, WØKBS

WØDDM (Continued)

Category	Item	Brand	Model	Description	Asking
Accessories	414	MFJ	MFJ-986	Differential-T Tuner	\$200.00
Accessories	416	Mirage	MP2	SWR Meter	\$80.00
Accessories	417	Optolinx	CX12	PC to Radio Interface	\$25.00
Amplifiers	426	RFConcepts	RFC-2-23	2 meter amplifier 2w in 30w out	\$80.00
CBs	429	Radio Shack	TRC-520	wx/compass CB	\$25.00
Headphones	430	Sensiphone Superex		Headphones	\$5.00
Power Supplies	444	Magnetic	PS 1001MR	Magnetic Regulated Power Supply	\$10.00
Scanners	446	Realistic OptoScan456	20-144	Scanner	\$50.00
Test Gear	452	HP	HP 1220A	Oscilloscope	\$100.00
Amplifiers	462	Mirage	D 1010 N	430-450Mhz Amplifier 10in-100out	\$200.00
Tuners	463	Icom	AT-180	HF/50Mhz ATU	\$300.00
Microphones	465	Astatic	D-104	Microphone with T-UG8 stand	\$50.00
Tuners	468	Icom	AH-4	ATU HF & 6 meter	\$300.00
Tuners	470	Icom	AT-180	HF/50Mhz ATU	\$300.00
Tuners	471	Icom	AT-180	HF/50Mhz ATU	\$300.00
Power Supplies	473	Astron	RS-35M	35 amp Power Supply	\$200.00

WDØEGK

Category	Item	Brand	Model	Description	Asking
Accessories	6	TRAC	TE-284	Memory keyer	\$30.00
Accessories	8	TRAC		Memory keyer	\$30.00
Accessories	9	Viking		Phone patch	\$15.00
HTs	15	Icom	IC-4AT	440 MHz Handheld - no battery	\$40.00
HTs	16	Realistic	HTX-202	2 meter handheld - no battery	\$50.00
Keyers	21	Whiterook	MK-44	Mini Paddle	\$10.00
Speakers	32	HalliCrafters	R47	Metal speaker	\$50.00
Speakers	33			Speaker	\$5.00
Speakers	34			Speaker	\$5.00
VHF	37	Kenwood	TR-2200A	Portable 2 meter	\$20.00

Prices are negotiable. Make an offer. All items are used and sold AS-IS

"Contact: Gordon Trout, WØKBS, (402) 580-5326 after 12 noon or w0kbs@arrl.net"

The Lincoln Amateur Radio Club, Inc. (LARC), is a nonprofit organization devoted to the promotion of Amateur Radio. The club sponsors activities and programs to promote growth in Amateur Radio, further the experience of those already licensed, and create international goodwill.

The Lincoln LOG is mailed monthly to all paid members of LARC and Lancaster County, Nebraska Hams.

The LOG and other LARC information are available at k0kkv.org and facebook.com/LARClincoln and may be used freely. Permission is granted to other publications to reprint articles, provided that source credit, author, and previous print source appear in the reprint.

Lincoln Amateur Radio Club, Inc. P. O. Box 5006 Lincoln, NE 68505

Those interested in paying their club dues online, should email treasurer@k0kkv.org for more information.

Lincoln Amateur Radio Club Registration Form

Name: _____ **Call Sign:** _____

Address: _____

City: _____ **State:** _____ **ZIP+4:** _____

Phone: _____ **Email:** _____

License Class: None Novice Tech General Advanced Extra

Memberships

LARC (\$15.00 Full, \$10.00 Associate*) Year: _____ \$ _____

LARC (\$10.00 First-time members-first year only) Year: _____ \$ _____

Lincoln Repeater Club (\$10.00/year) Year: _____ \$ _____

Donations

General Fund Equipment/Clubhouse Activities Other \$ _____

Enclose check payable to:

Lincoln Amateur Radio Club Inc.
PO Box 5006, Lincoln, NE 68505-0006

Total Due: \$ _____

* Associate members must be family members residing at the same address as the full member 2024 V1