

Vol. 57 Issue 6

June, 2024

"Covering Tulsa through the air"

PREZ SAYS:

I hope this finds everyone well. Just a reminder that there is NO meeting this month. I wish everyone gets to go to Field day. This year we are with TARC. No events coming up in the next month. We got a break from bike events. I would like to thank the ones that helped with the bike events this year. We could not do it without your help. A big thank you to Merlin WB5OSM and a few others I can't think of right now for getting the 146.88 repeater back on the air. The next TRO meeting is Tuesday July 23 at 7:00 at Freeway Cafe 5849 S 49th W Ave Tulsa. Come early if you want to eat with us. Stay cool and I hope to see you at the next meeting.

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TRO President Paul Young - KE5EHM

NO TRO REGULAR MEETING FOR JUNE:

Next regular meeting will be Tuesday, July 23rd at Freeway Cafe 5849 S 49th W Avenue, Tulsa.

Make one of the Field Day Sites this weekend:

TARC will be at Haikey Creek Park Shelter #2.

Check the TARC website www.w5ias.com for more information.

ARRL'S COMPUTER NETWORK HIT BY HACKERS:

By Merlin Griffin – WB5OSM

Normally it takes about three-four days for the data from a VE testing session to get processed and the applicants get their new or upgraded licenses issued. I also requested some testing supplies from the VEC office. A full week went by and the applicants from the May test session had not heard from the FCC. All I got on my email for supplies was the "sounds of silence." Another week went by, and still just crickets chirping. OK, this is weird, the whole process if usually very efficient, and the staff at the VEC office very courteous. I

finally saw on the ARRL website that they had been attacked by hackers and their entire computer system including their VoIP phone system was taken down. They didn't say what the nature of the attack was, but I expect it was ransom ware. ARRL seems to have mostly recovered now and back to business as usual. I think it took them about three weeks to get things back on track. The VEC office had to work down a backlog of testing data. This may have affected the test sessions from the Hamvention. I know how big the test sessions at Green Country are, I imagine that pales in comparison to the ones they hold at the Hamvention. Then all the others held around the country and US military bases around the world. ARRL joins a long list of people hit by Hack attacks. City of Tulsa was hit by a ransomware attack about three years ago, shut us down for at least a month. Hillcrest health care and other hospitals operated by Ardent Health Services, were attacked, one of the major health insurance providers was hit, then the most recent was Ascension Health Care, that operates the St. John affiliated Hospitals and doctor's offices here in Tulsa. The ARRL, is kind of small potatoes compared to major health care providers and local governments, so I'm not sure why they were targeted, may have been a random thing where a hacker group just sent out some malware, seeing if they can get any money at all from anybody. This is almost a business these days. Some companies, now just budget for ransomware attacks. The hacker asks for say a million dollars, the company negotiates them down to \$250,000, the hacker gives them the keys back to their system and life goes on. Why, do they pay? Purely, a business decision, look if we go around disinfecting all our computers and servers, we have to buy new hardware, possibly license new software, plus we are out a lot of overtime for an already stressed out IT staff, and we may have to vet and hire more IT people or bring in contractors. Then there is lost productivity from the computers being down, so it may be cheaper to pay. Now, government entities tend not to pay, because the hack attack may be political in nature, and the hackers would take the money, say "screw you" and you still have to rebuild your system anyway. On the other hand, major insurance companies and health care providers in this country can be viewed as big cash cows. Plus, insurance companies spend a lot time irritating a lot of people. So, I'm not surprised they get attacked. But again, ARRL doesn't really bother anybody. So, hackers please leave ham radio associated entities alone.

MINUTES OF 05/28/2024 TRO MEETING:

TRO Secretary Report General Meeting - 5/28/24

Paul Young, Presiding

16 members present, 1 guest: Rebecca Helt - KI5RFT

General Business:

Treasurer Report as published in The Signal: moved for approval by Don, seconded by Bob - APPROVED

Secretary Report as published in The Signal: moved for approval by Remell, second by Joe - APPROVED

Engineering/Repeater report: 146.88 back on the air with another antenna and improvements to the controller programming. Remote receiver at Keetonville appears to be online, Skiatook will be checked. Bob B. Suggested adding a 1/4-wave shorted stub for lightning protection at City Plex site.

Activities: Reminders for the upcoming bike ride support opportunities with Ride to Remember and Tulsa Tough. TRO will join the TARC for Field Day in late June - a motion to support their evening meal for TRO members in the amount of \$100 was made by Don, seconded by Ben – APPROVED.

Bart presented information on club growth strategies from a forum at the Dayton Hamvention he attended. Club growth ideas include shirts to build identification & camaraderie, classes for new hams, build days and membership incentives for those passing the VE test administered by TRO. The new ham membership idea was moved by Don and seconded by Ben - APPROVED.

Adjourn - Motion by Don, second by David - APPROVED

Respectfully submitted -Bart Pickens, N5TWB TRO Secretary

TRO TREASURY REPORT OF 06/20/24:

Total TRO Accounts Beginning Balance Checking Beginning Balance 05/28 3309 Merlin Griffin – Reimburse for Astron SS-50M	\$7195.99 \$3294.54 +\$294.02	
05/28 3310 TARC for Field Day Expense	+\$100.00	
Checking Balance	\$2900.52	
PayPal Beginning Balance	\$323.12	
05/31 1 Member Renewal	+\$25.00	
PayPal fees	-\$.75	
PayPal Ending Balance	\$347.37	
Cash Beginning Balance Cash Ending Balance	\$100.00 \$100.00	
Savings Beginning Balance	\$3478.33	
05/09 Service Charge	-2.00	

Ending Savings Account Balance \$3476.92

Total TRO Account Balance \$6824.81

Respectfully Submitted by Steve Miller – AA5V 06/20/2024

ENGINEERING REPORT:

05/31 Interest Earned

By Merlin Griffin – WB5OSM

REPEATER STATUS

+0.59

146.805 (-) PL 88.5 ???? – Looking for location 146.880 (-) PL 88.5 (CityPlex), 82.5 (Skiatook) or 141.3 (Keetonville receiver) 81st & Lewis – Working 146.940 (-) PL 88.5 Sun Building, 9th & Detroit – Working 927.700 (-25 MHz) (902.7) CityPlex -??

Metro Link:

444.1 (+) PL 88.5 Skyline East 41^{st} & Skelly Drive – Working 444.725 (+) PL 88.5 GRDA tower NW of Skiatook – ? ? 444.950 (+) PL 88.5 ? ? ? ? – Looking for location

More work done on the 146.88 repeater.

- 1. Observed a lack of sensitivity especially with the UHF link receivers.
 - 1.Traced problem to a blown fuse.
 - 2. Right now, I have it running on a 10 A fuse, needs smaller.
 - 3. Will take care of that on the next trip to the site.

- 2. Verified that not only is all the metal in the cabinet connected to the negative terminal on the power supply, everything is connected to an earth ground.
 - 1.At least as good as you can be when you are 600' above the ground.
 - 2.We are grounded to the electrical conduit where we get our AC power. May seek an independent some other day. There are some water pipes available in that room.
- 3. Compared current readings on the new power supply to an independent ammeter, and found good comparison, so we are drawing 31 A at 13.9 V.
- 4.Performed some software updates on the SCOM 7330 controller.
 - 1. Upgraded the SBOOT utility.
 - 2. Found Diagnostics utility to be most current version.
 - 3. Upgraded 7330 operating system to latest version.
 - 4. Found built-in speech library to be the most current version and left it alone.
 - 5.No changes made to custom speech library.

That was it for this trip, next trip in about two weeks, we will finish getting the new power supply into rack mount format, and get the splitter/amplifier on a more appropriately sized fuse. Then make a few programming changes to the controller. That requires a bit of study. Possibly see if we can add some form of lightning protection on the antenna feedlines. 73 DE WB5OSM

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ARES Net

Thursday evenings at 8:00 PM 1st, 2nd and 3rd Thursdays on the 145.11 MHz repeater 4th and if there is a 5th Thursday use the TARC Super Link System 443.850 MHz PL 88.5 Hz

CLUB MEETINGS

Tulsa Repeater Organization

Fourth Tuesday of the month at 1900 (7PM) except June (Field Day) and December (Christmas). Meetings are held at Freeway Cafe at 5849 South 49th West Avenue in Tulsa. If you plan on eating be there 30 minutes to an hour early.

Tulsa Amateur Radio Club

Third Tuesday of the month 1900 (7PM)

Meetings are held at Tulsa University Keplinger Hall Room 3140 (west of Harvard & 5th Street)

Broken Arrow Amateur Radio Club

First Monday of the month (except for holidays) 1900 (7 PM) Community Recreation Center, 1500 South Main, Broken Arrow

Rogers County Wireless Association

Second Saturday of every month at 0800 (8 AM)

Check the RCWA website at www.rcwa.org for meeting information.

VE TEST SESSIONS WALK-INS ARE WELCOME AT ALL SESSIONS!

Check with the contact for each testing session for their plans.

Tulsa Repeater Organization

Third Thursday of odd-numbered months, 1900 (7 PM)

American Red Cross 10151 E 11th (11th & US 169) Tulsa, Oklahoma 74128

Contact: Merlin Griffin WB5OSM at WB5OSM@hotmail.com or (918)520-7668 - leave message

Broken Arrow Emergency Management

First Saturday of odd-numbered months - 0900 to 1100 (9:00 to 11 AM)

Broken Arrow Public Service Complex 1001 N 6th Street Broken Arrow OK 74012

Contact: Loyd Beeson, AE5MM at ae5mm@arrl.net or (918)638-2393 (text msg or voice)

Broken Arrow Amateur Radio Club

Second Saturday of even-numbered months at 0930 (9:30 AM)

Broken Arrow Public Service Complex 1001 N 6th Street Broken Arrow OK 74012

Contact: Don Doyle AC5II at AC5II@arrl.net or (918)379-0962

Rogers County Wireless Association (New session in Owasso)

First Saturday of each quarter at 0900 (9:00 AM)

Trinity House, 9210 N Garnett, Owasso OK 74055

Contact: Dustin Dye, AB5C at contact@rcwa.org or (918)734-0869

MAKING CONTACT – How To Find Out More About The Tulsa Repeater Organization

Our Website: www.tulsahamradio.org

Our Facebook: https://www.facebook.com/groups/TulsaRepeaterOrganization/

Our Twitter: https://twitter.com/TulsaRepeaters

TRO OFFICER CONTACT INFORMATION

	KE5EHM	918.637.8414	ke5ehm@tulsaahamradio.org
_			
on Ferry	N5DGF	918.607.3292	n5dgf@tulsahamradio.org
art Pickens	N5TWB		n5twb@tulsahamradio.org
teve Miller	AA5V	918.381.8574	aa5v@tulsahamradio.org
Merlin Griffin	WB5OSM	918.520.7668	wb5osm@tulsahamradio.org
aul Young	KE5EHM	918.637.8414	ke5ehm@tulsaahamradio.org
PEN			
PEN			
om Stroud	KD5OPH	918695.3735	kd5oph@tulsahamradio.org
d Compos	K5CRQ	918.231.7730	k5crq@cox.net
ary Parham	KC5ZQP	918.369.1065	kc5zqp@aol.com
Mark Conklin	N7XYO	918.232.8436	n7xyo@tulsahamradio.org
teve Miller	AA5V		aa5v@tulsahamradio.org
t / 6	eve Miller Jerlin Griffin Jerlin Griffin	art Pickens Reve Miller AA5V Ierlin Griffin WB5OSM AUI Young PEN PEN Om Stroud Compos AC5CRQ AC7P AC7ACRA A	AA5V 918.381.8574 Iceve Miller AA5V 918.381.8574 Iderlin Griffin WB5OSM 918.520.7668 aul Young KE5EHM 918.637.8414 PEN PEN Om Stroud KD5OPH 918.695.3735 Id Compos K5CRQ 918.231.7730 ary Parham KC5ZQP 918.369.1065 Iark Conklin N7XYO 918.232.8436

Want more information about the Tulsa Repeater Organization or have questions about articles in the newsletter? Contact us at email address wa5lvt@tulsahamradio.org or write to:

Tulsa Repeater Organization P.O. Box 1422 TULSA, OK 74101-1422

Mail to: