



WASHRAG™

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VOLUME 27 ISSUE 11
NOVEMBER 2025

Wireless Association of South Hills

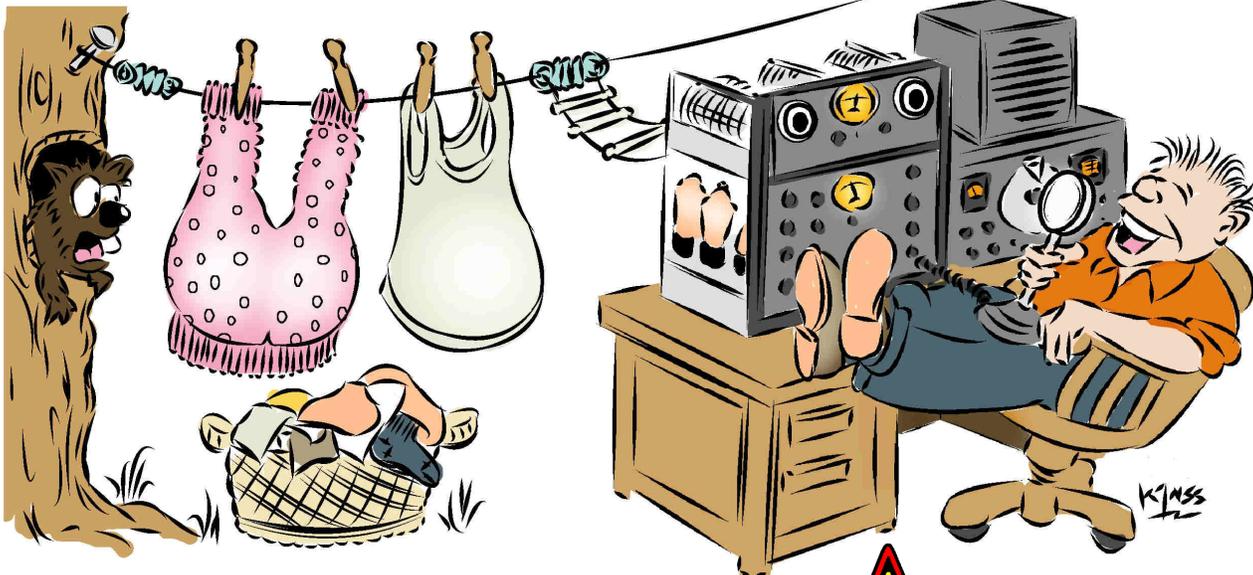


N3SH WA3SH NP2SH/B

www.n3sh.org



Wireless Association of South Hills



WASHRAG™



VOLUME 27 ISSUE 11
NOVEMBER 2025

Next Monthly Meeting: Thursday, November 6th, 2025

The next scheduled meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be on **Thursday, November 6th, 2025**, starting at 7 PM, at the ST. CLAIR HEALTH OUTPATIENT CENTER, 2000 Oxford Drive, Bethel Park PA 15102, adjacent to Village Square Mall, across from South Hills Village Mall, just off US Route 19.

Meeting topics include Pa QSO 2025 wrap-up, other plans for 2025, 2026 Officer Nominations & Elections, **WASHFEST 2026**, and more to come. See you there!

Cover: *The Wireless Association of South Hills, Venango County Group, Pa QSO Party 2025. We're so wireless, we don't even need coax!* Photo courtesy of and © Copyright 2025 Glen Roberts KE7FD

WASH 2025 OFFICERS

EXECUTIVE COMMITTEE:

President	Tom Galante KB3NIX
VP / Secretary	Nathan Suehr KC3GMM
VP / Treasurer	Mark Stabryla N3RDV

AND WE COULDN'T DO IT WITHOUT:

N3SH Trustee	Larry Comden K3VX
WA3SH Trustee	Rich Danko N3SBF
NP2SH Trustee	Paul Jordan NP2JF
N3SH WA3SH NP2SH/B QSL Manager	Ron Notarius W3WN
NP2SH 2009 QSL Manager	Carl Schroeder K9CS
VE Team Liaison	Grant Olson KC3MLC
Webmaster	Curtis Turner KB3CMT
Quartermaster	Harold Rosenberger K3HCR
WASH FM Net Manager	Chuck Bihun KC3ELA
WASHFest 2026 Committee	Ron Telek W3LE, Chair
	Bill Hill W3WH
Activities & Operating Events	Glen Roberts KE7FD
Ways & Means	Rick Bell KB3IAC
WASH 2M Contest Chair	Carol Danko KB3GMM
Field Day 2026 Coordinators	Glen Roberts KE7FD
	Frank Bobro N3FB
	Bill Hill W3WH (emeritus)
	Larry Comden K3VX (emeritus)

CLUB-AFFILIATED REPEATERS, BEACONS, & DIGIPEATERS:

Mt. Lebanon	N3SH / R	146.955 MHz (-)	PL 131.8
North Side	N3SH / R	442.550 MHz (+)	PL 131.8
Canonsburg	N3FB / R	443.650 MHz (+)	PL 131.8
St. Johns, VI	NP2SH / B	28.276 MHz	Propagation Beacon
Canonsburg	N3SH	144.390 MHz	APRS Digipeater

N3SH / WA3SH WASHNet, the weekly on-air net of WASH, meets every **Monday** Night, 8:00 PM ET, on the 146.955 & 443.650 repeaters. All radio amateurs, WASH members or not, are welcome to join in!

THE LEGAL STUFF

"The WASHRag™" (formerly "The Mariner™") is the Official Newsletter of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC. (WASH)**, a 501.C.3 not for profit organization.

Published Monthly with occasional Special Editions as warranted.

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Editor & Publisher: Ron Notarius W3WN

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Ron Notarius W3WN

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The **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** was founded on August 23rd, 1993, as the original **SOUTH HILLS AMATEUR RADIO CLUB**, and operated under that name through 1998. WASH was also known briefly in late 1998 as the **N3SH AMATEUR RADIO CLUB**. It is not in any way affiliated with the "South Hills Amateur Radio Club, Inc." and is not responsible for that group, it's members, or it's actions in any way, shape, or form.

As always, special thanks to the owners & operators of both the N3SH/R Repeaters and the N3FB/R Repeater System for permitting the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** and it's members to use their repeaters for club purposes.

WASH Amateur Radio Club News Briefs

Next WASH VE Test Feb 22nd

The Next WASH VE exam session will be on **Sunday, February 22nd, 2026, 10:00 AM**, at the **Home Economics Building, South Park**, 3735 Buffalo Drive, South Park Township, during WASHFest 2025. Talk-in on the 146.955 MHz repeater. All examiners are ARRL VEC affiliated. **Pre-registration is strongly encouraged. Walk-ins taken on a space/time available basis.**

If you plan on attending the test session, please contact VE Team Liason Grant Olson KC3MLC: kgo@grant-olson.net

Please bring the following to your test session:

- + Picture ID or other suitable identification (2 forms of ID required)
- + Pen / Pencil / Calculator
- + Original FCC license plus a copy of license (if upgrading)
- + Original CSCE plus a copy of CSCE (if upgrading)
- + Check in the amount of \$15.00 (payable to: ARRL VEC)

Note that the FCC now only accepts FRNs as identification numbers. **Social Security Numbers are no longer accepted.** If you don't have an FRN, please create one in advance at <https://apps.fcc.gov/coresWeb/publicHome.doc>

Future test dates: To Be Determined

A Few Words



It is November, and that means I am coming close to the end of my term as your President. It has been an enjoyable experience. Unfortunately, I cannot continue in any role as an officer of the club for next year this is due to some school commitments that I will have on Thursday night however, I still will be active in the club!

I know I say this every month. please come to the November meeting this coming Thursday. This meeting is particularly important since you will have an opportunity to nominate and vote for a new President in addition. we need to move forward with our discussion around the contest rules for our January contest, as well as the upcoming WASHFest at the end of February.

I have a number of other issues that I would like to discuss at the meeting so we have a full agenda. see all of you on Thursday

— 73, Tom Galante KB3NIX
President, WIRELESS ASSOCIATION OF SOUTH HILLS, Inc.
N3SH / WA3SH / NP2SH

"There are issues with me getting the automated PayPal notifications when members pay dues. That's why I've missed including paid members in past issues of the newsletter.

I'm hoping the issue gets resolved quickly and get back to normal before the 2026 applications start pouring in.

Thanks for your patience and understanding.

Any questions, email me at n3rdv@arrl.net

Mark N3RDV

Reminder:

The November WASH Meeting will be at The St. Clair Health Outpatient Center Village Square in Bethel Park! Meeting begins at 7 PM.

Saturday, October 25th was a beautiful pre-Halloween weekend morning, and a good start for the CQ WW DX SSB contest... and of course, the monthly meet-up of the **WASH Breakfast Gang** gathered at the [McMURRAY EAT'N PARK, 3380 WASHINGTON ROAD](#). This month, the small group included KB3NIX, K3SGT and Barb, and WB4GCS (whom we thank for this month's notes!) Topics covered:

RF Noise -- something has changed over the last few weeks, 75M is much quieter -- something went away, so I can hear everybody on the Health and Wellness net. Not in the house, long ago I did the trick of powering the radio from a battery, shutting down every UPS, and pulling the main breaker. Others are also citing how the band has improved; FCC action/inaction/misconduct related to proliferation and non-enforcement of Part 15 non-compliant devices; Who did NOT come; RaspberryPi computers, what it is and history, Ham Clock (apparently a VERY useful tool), Mathematica (a free include that when I first learned about it was something like \$50K), WOLFRAM (graphical programming language going to the purpose of the PI -- to get kids to PROGRAM games, rather than just PLAY), PSK reporter, Use as cheap general appliance; Arduino being purchased by Qualcomm -- will supposedly open up a bunch of Qualcomm resources to the Arduino community; Antennas in trees, how to get there and what about when the tree comes down; QRZ.com linkage with FT8; Books: *The High Velocity Edge*, *Leading Change*, *War Without Rules* -- *China's Plan for World Domination*; Threats to the Nation's Electrical Grid; High reliability government programs; Tower climbing; Ladder accidents; Automobile reliability and styling; A sound "business case" may not always be helpful... probably a lot more too!

We next get together post-Turkey Day on Saturday, November 29th, 8 AM, at the [McMURRAY EAT'N PARK, 3380 WASHINGTON ROAD](#). See you there!

It's the November meeting upcoming, and that means... it's time for **nominations for 2026 WASH Officer elections**. This year, we have the annual term for President, and the 2 year term for Vice President/Secretary coming up. We have some nominations from October, and anticipate a few more this month as well. Who will run? Who will win? Who will claim the election was stolen? Inquiring minds want to know...

Pa QSO 2025 is now behind us, and from all reports, everyone who operated had a great time! Conditions were fairly good for the most part, from what Ye Editor could tell (when he had time to operate... work is a four letter word...) and we have some write-ups and pictures in this month's pages. Did you operate? Do you have some pictures or a story or three to tell? We can still make room for you in the next issue... unless you want to hear about Ye Editor's Siberian Husky...

On that subject, a Club Member made a very special trip prior to Veteran's Day this year. We are really looking forward to seeing that article and some pictures next month. (No, it's not from Ye Editor's vacation to MYR... never schedule a return trip routing through an airport due to be closed due to high winds and pouring rain, lest ye deal with a surly hamburger stand crew working in the middle of a major southern airport when you get rerouted...)

What else is coming up in the next few months? The CQ Worldwide DX CW Contest, Sweepstakes Phone, ARRL 160 and 10 meter contests, Straight Key Night, and let's not forget, the annual **WASH 2 Meter Simplex Contest** in January. We hope to have more information about that in the next few issues as well.

Does anyone know of a **decent** (and inexpensive) **publishing package**? Microsoft is retiring Publisher next year AND disabling the application from ever being used again, which means we have a year to find a new package to edit this newsletter on... retire is one thing, but disabling it from ever being used again? That's petty and mean. Even for Microsoft.

Join WASH or Renew your Membership Today! Membership Application on Page 15

Minutes, October 2nd Meeting

Thomas Galante KB3NIX, President, WASH

The meeting was called to order at 7:04 PM.

Treasurers report was not available.

Meeting minutes from September were approved without changes. Motion for approval from Carol KB3GMN seconded by Bill W3WH

Regarding Technical matters, Glenn Katie, KE7FD reminded us that the FCC was closed because of the government shut down

Under public service. The group was reminded that there was the opportunity to participate in a Public Service activity at Steel City ARC on Saturday, October 4th.

Jim WB4GCS and Patty KC4WTT wanted to let the group know that they would be willing to host a potluck gathering at their home at the end of January or during the month of February. The subject of the January meeting was discussed because the first Thursday in January falls on New Year's Day emotion from Ron W3WN seconded by Carol requesting a move of the January meeting to January 8th. This would illuminate the New Year's Day conflict. If the current location was not available, the January meeting would be held via Zoom.

The January 2 Meter contest was discussed; Glenn would draft contest rules and get feedback from our club as well as other interested parties the contest rules will be finalized for our clubs meeting in December

The clubs 10 Meter beacon was discussed; Mark N3RDV will speak with Paul Jordan NP2JF regarding this matter

The American Radio Relay League petition regarding antenna restrictions was also brought forward.

Finally, the group discussed possible nominees for president and secretary for 2026 possible presidential candidates include Jim WB4GCS, Nathan KC3GMN, Eric K3SGT and Scott AC3GB. One possible nominee for secretary was Bill KC3WM, These candidates and others will be considered during the November meeting and election will occur for President



WASH Spotlight: PaQSO



"He thought we wouldn't notice... Him using a pristine microphone!"

Bill W3WH in rare form during the 2025 Pennsylvania QSO Party
Caption & Photo courtesy of and © Copyright 2025 Glen Roberts KE7FD

Every month we're going to try to feature a **WASH** club member, something about them, something they're involved in or a club-related activity that we're involved in, in the **WASH Spotlight**.

Submissions for the Spotlight should be sent to Ron W3WN at [newsletter at n3sh dot org](mailto:newsletter@n3sh.org)

Monthly WASH Breakfast



Please join us for the next **WASH** Breakfast! We usually get together on the LAST Saturday of every month for a chance to informally sit down, shoot the breeze, compare notes, drink lots of coffee, and just have a good time!

Join us this month at **Eat'n Park**, 3380 Washington Road (US 19), McMurray. Start time is about 8 AM until ????. Monitor 146.955 & 443.659 for talk-in or any last minute changes.

All are welcome, **WASH** members or not, amateurs or not!

Wireless Association of South Hills Membership

N3UE: With A Little Help From My Friends



If you've driven on Bower Hill Road in Bridgeville in recent weeks, you may have spotted the wind damaged antenna system on top of Ed Wolf N3UE's tower.

Ed has informed us that "It pays to have good friends in high places.

A friend owns a structural steel construction company; made this for me in his shop...

Just have to install the winch, and I can tilt the tower over to the ground.

My days aren't over yet!"

AC3GB	KC3NFV	W3WH	WASH FL	WASH TX	Silent Keys
AC3ML	KC3UUK	W3WN	KA3UPY/M	K3OL	
AC3WM	KC3VQR	W8LEV	WASH NE	NB3C	
AC4KU	KC4WTT	WA2YEZ	NØPEU	KB3IJX	
AE3DL	KE7FD	WA3PYU	WASH OH	Jane Wagner	
K3GW	N3DFK	WA3VSS	N8DPW	WASH VI	
K3OCT	N3FB	WB4GCS	WASH OR	NP2JF	
K3SGT	N3IDH	Charmel	KB3NVL	WASH VT	
K3VX	N3LV	Spirk	KB3NVM	KE3XB	
K6DWR	N3NWR		NØVLR		
KA3VXM	N3RDG		WASH SC		
KB3CMT	N3RDV		N8NEU		
KB3GMN	N3SBF				
KB3GMU	N3TBJ				
KB3GUZ	N3UE				
KB3IAC	N8NEU				
KB3IVX	NB3C				
KB3JHR	NL7XM				
KB3NIX	NU3Q				
KB3YCX	NY9H				
KC3GMM	W3LE				

If your call should be listed here & isn't, please contact Mark N3RDV

Through November 1st, 2025
List compiled by
Mark Stabryla N3RDV, Vice President/Treasurer

- AB3KA
- AB3ED
- AC4KU
- AD3Q
- K3EED
- K3LIE
- K3LGM
- KA3NMG
- KB3ENX
- KB3FNM
- KB3FQT
- KB3JHQ
- N3BPB
- N3CZZ
- N3FZ
- N3HKQ
- N3KEH
- N3OBD
- N3RNX
- N3SKR
- N3SRC
- N3ZEL
- N3XFE
- W3ZLK
- W4ZE
- WA3JPP

2025/26 WASH Upcoming Events Calendar

Club Meetings & Other Significant Events — Subject to Change

November 6 th	WASH Meeting	St. Clair Health Outpatient Center Village Square Conference Room, 2000 Oxford Drive
November 11 th	Veteran's Day	
November 15 th — 17 th	ARRL Sweepstakes Phone	http://www.arrl.org
November 29 th — 30 th	CQ World Wide DX Contest CW	https://cqww.com
December 4 th	WASH Meeting	St. Clair Health Outpatient Center Village Square Conference Room, 2000 Oxford Drive
December 5 th — 7 th	ARRL 160 Meter Contest	http://www.arrl.org
December 13 th — 14 th	ARRL 10 Meter Contest	http://www.arrl.org
December 27 th — 28 th	Stew Perry Topband Challenge	Boring Amateur Radio Club
December 31 st	Straight Key Night	http://www.arrl.org
January 8 th , 2026	WASH Meeting Rescheduled	St. Clair Health Outpatient Center Village Square Conference Room, 2000 Oxford Drive
January 10 th	WASH 2 Meter Simplex Contest	TBD
January 11 th	Harrisburg RAC Winterfest 2026	Vietnam Veterans of America #542, 8000 Derry Street, Harrisburg PA 17111
February 5 th	WASH Meeting	St. Clair Health Outpatient Center Village Square Conference Room, 2000 Oxford Drive
February 21 st — 22 nd	ARRL DX Contest CW	http://www.arrl.org
February 22 nd	WASHFest 2026	Home Economics Building, 3735 Buffalo Drive, South Park
	WASHFest VEC Testing	
March 5 th	WASH Meeting	St. Clair Health Outpatient Center Village Square Conference Room, 2000 Oxford Drive
March 7 th — 8 th	ARRL DX Contest Phone	http://www.arrl.org
March 28 th — 29 th	CQ WPX Contest SSB	https://cqwp.com
April 2 nd	WASH Meeting	St. Clair Health Outpatient Center Village Square Conference Room, 2000 Oxford Drive
April 19 th	Two Rivers ARC W3OC Hamfest	Lincoln Borough VFD No 184 Social Hall, 4312 Liberty Way, Elizabeth PA 15037
May 7 th	WASH Meeting	St. Clair Health Outpatient Center Village Square Conference Room, 2000 Oxford Drive

Photos courtesy of and
(c)Copyright 2025 Ron
Notarius W3WN

"Seen" At the October WASH Meeting



Pa QSO 2025: N3ZK Mifflin

Randy George N3ZK
Photos courtesy of and (c)Copyright 2025
Frank Bobro N3FB

Imperial, PA, October 15th, 2025 – Team N3ZK for another great year!! We operated from Mifflin County. We had another PA county clean sweep; we beat all of our team's all-time best records and almost had a clean sweep of 85 sections (worked 80) and much more. The weekend was absolutely beautiful; the food was amazing and the contacts plentiful!

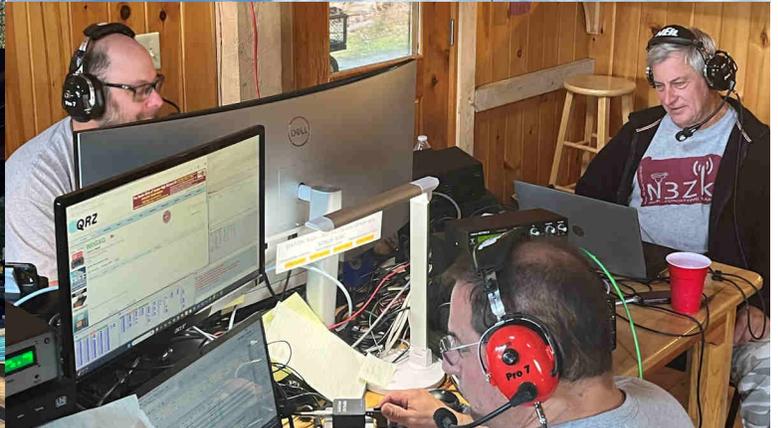
Our Claimed Score is 315,404; that is over the Mifflin County record of 115,028.

Thank you to all that worked us in the contest, we can't wait to hear from you next year!

Photo Right: The Gang (photo courtesy Don Rowland KD2ZKR)

Photo Below Left: The outdoors, it was a beautiful day!

Photo Below Right: A Clean Sweep! The entire team: (L-R) Kevin N3KFD, Don KD2ZKR, Frank N3FB, Paul NØVLR, Randy N3ZK



Pa QSO 2025: N3RDG Venango

Article & Photos courtesy of and
© Copyright 2025 Bill Hill W3WH

Canonsburg, PA, October 15th, 2025 — This year our team K3VX, KA3VXM, WA3PYU, K3HCR, N3RDG, KE7FD and W3WH operated from Venango County. We used Bobby's call N3RDG and I can say without reservation that everyone had a good time. We completed our "SWEEP" pretty early Sunday morning when Mike worked Huntington County on 40 phone.

Here are our stats:

SSB	354		
CW	292	Total QSOs	646
Counties	67		
Sections + DX	51	Total Multipliers	118
		Points	110,330

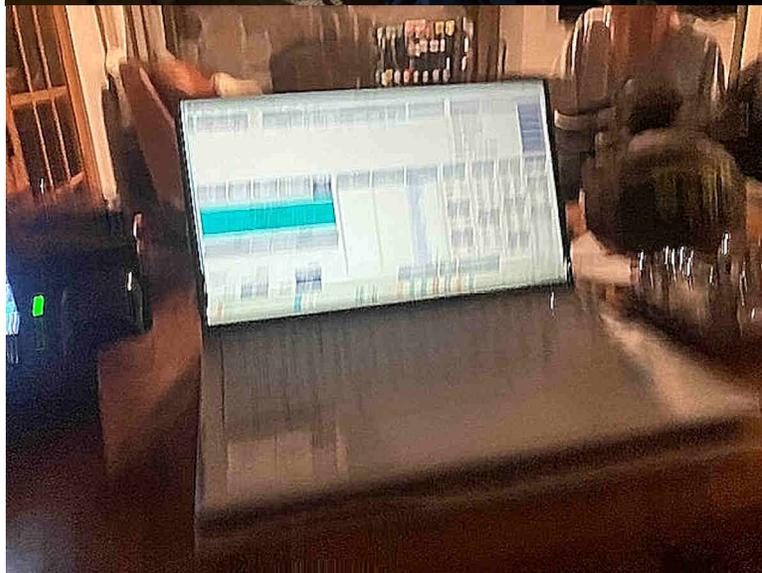
Friday marked our arrival and we started installing antennas right away. We hoped to use two OCF dipoles for 80/40/20 but only one worked out so instead we used the tried and true "cross " dipoles for 80/40 ssb. On 20 we used Kathy's portable vertical and on 15 we used Lee Barrett's "C match" vertical. I don't believe we worked anything on 10 meters. All the antennas worked very well. Of course the super quiet location didn't hurt either. We set up a six meter antenna but had no contacts.

Kathy King kept us well-fed with Steak, Shrimp Scampi loads of snacks and hero sandwiches. Jean Furlan (Larry's wife) sent her usual delicious Chili. All this was accompanied by perfect weather. Rigs were two Icom 7300's, one FTdx3000 and an FT891. Our antennas were quite a ways apart so we suffered no interference to speak of. The 7300's didn't seem to cause interference either Boy was that nice.

Everybody on the team contributed to our fourth or fifth consecutive "sweep".

Next year we're returning to Armstrong County and our Air bnb is already reserved.

The QSO Party is a wonderful event which really is "the friendly qso party" Everyone who can should make time to participate, even if it's part time!



Use of an Off Center Fed (OCF) Dipole at the Pa QSO Party

Larry Comden
K3VX

Pittsburgh, PA, October 20th, 2025 – OCF has been used in Windom single wire feed and G5RV coax fed antennas, this is nothing new.

A resonant center fed dipole has an impedance of 50 to 75 ohm depending upon height above ground. By moving the feed point to 30 to 35 percent of the length, we can find a feed impedance of 200 to 300 ohms. Place a four to 1 (4:1) voltage balun (from Balun Designs) at the feed point to get an impedance similar to the center fed version. We used 135 feet overall with the feed point 43 feet from one end (about 32 percent).

We constructed an OCF using the dimension from ARRL's Antenna Book version 20 and then tested the antenna at Sunset Hills. The Rig Expert Analyzer showed excellent results for low end of 80M, all of 40M, all of 20M and most of 10M. This was a very pleasant surprise. Later, I modeled the antenna to view the current distribution. It's exactly as you would expect in a resonant antenna on fundamental frequency and even number of half wavelengths.

The antenna is not useful on 15M.

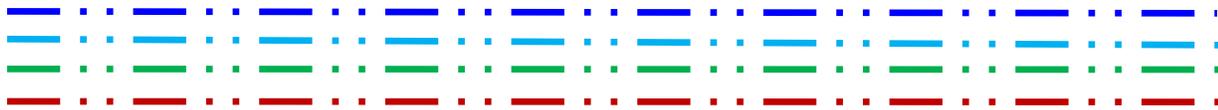
OK, so how did it work at the PA QSO Party? Beautifully. We attached the antenna to the Triplexer (80, 40, 20) connector on the patch panel and were able to use it for the two CW rigs. No tuner was required for those bands.

Note: a version for 75M, say centered on 3800kHz will not work as a multiband antenna without a tuner. The harmonics of 3800 fall outside of the amateur bands.

Conclusion: The OCF could be used at Field Day in place of the CW/Digital 80X40 dipoles. It requires fewer support points and therefore is easier to erect.

Pa QSO 2025: N3RDG Venango

Photos courtesy of and ©
Copyright 2025 Harold
Rosenberger K3HCR



Two Rivers ARC 54th Annual Hamfest

Sunday, April 19th, 2026, 8:00 AM—12:00 Noon

Lincoln Borough VFD # 184 Social Hall

4312 Liberty Way, Elizabeth, PA 15037

Talk-in on 147.120 (131.8 PL) — Mobile Check In 146.52

Admission \$5

More Information at <https://www.trarc.org>



Radio Amateur Detects Classified Network Satellites Emitting Mysterious Signals

Geoff Brumfiel,
Houston Public
Media

Courtesy of
QRZ.COM News

Houston, TX, October 17th, 2025 – A constellation of classified defense satellites built by the commercial company SpaceX is emitting a mysterious signal that may violate international standards, NPR has learned.

Satellites associated with the "Starshield" satellite network appear to be transmitting to the Earth's surface on frequencies normally used for doing the exact opposite: sending commands from Earth to satellites in space. The use of those frequencies to "downlink" data runs counter to [standards set](#) by the International Telecommunication Union, a UN agency which seeks to coordinate the use of radio spectrum globally.

Starshield's unusual transmissions have the potential to interfere with other scientific and commercial satellites, warns [Scott Tilley VE7TIL](#), an amateur satellite tracker in Canada who first [spotted the signals](#). **"Nearby satellites could receive radio-frequency interference and could perhaps not respond properly to commands — or ignore commands — from Earth,"** he told NPR.

Outside experts agree there's the potential for radio interference. "I think it is definitely happening," said Kevin Gifford, a computer science professor at the University of Colorado Boulder who specializes in radio interference from spacecraft. But he said the issue of whether the interference is truly disruptive remains unresolved.

SpaceX and the U.S. National Reconnaissance Office, which operates the satellites for the government, did not respond to NPR's request for comment.

Caught by the wrong antenna

The discovery of the signal happened purely by chance.

Tilley regularly monitors satellites from his home in British Columbia as a hobby. He was working on another project when he accidentally triggered a scan of radio frequencies that are normally quiet.

"It was just a clumsy move at the keyboard," he said. "I was resetting some stuff and then all of a sudden I'm looking at the wrong antenna, the wrong band."

The band of the radio spectrum he found himself looking at, between 2025-2110 MHz, **is reserved for "uplinking" data to orbiting satellites**. That means there shouldn't be any signals coming from space in that range. But Tilley's experienced eye noticed there appeared to be a signal coming down from the sky. It was in a part of the band "that should have nothing there," he said. "I got a hold of my mouse and hit the record button and let it record for a few minutes."

Tilley then took the data and compared it to a catalog of observations made by other amateur satellite trackers. These amateurs, located around the world, use telescopes to track satellites as they move across the sky and then share their positions in a database. "Bang, up came an unusual identification that I wasn't expecting at all," he said. "Starshield."

"The NRO's proliferated system will increase timeliness of access, diversify communications pathways, and enhance resilience," the [agency says](#) of the system. "With hundreds of small satellites on orbit, data will be delivered in minutes or even seconds."

Tilley says he's detected signals from 170 of the Starshield satellites so far. All appear in the 2025-2110 MHz range, though the precise frequencies of the signals move around.

Signal's purpose in question

It's unclear what the satellite constellation is up to. Starlink, SpaceX's public satellite internet network, operates at much higher frequencies to enable the transmission of broadband data. Starshield, by contrast, is using a much lower frequency range that probably only allows for the transmission of data at rates closer to 3G cellular, Tilley says.

Tilley says he believes the decision to downlink in a band typically reserved for uplinking data could also be designed to hide Starshields' operations. The frequent shift in specific frequencies used could prevent outsiders from finding the signal.

Gifford says another possibility is that SpaceX was just taking advantage of a quiet part of the radio spectrum. Uplink transmissions from Earth to satellites are usually rare and brief, so these frequencies probably remain dark most of the time. "SpaceX is smart and savvy," he says. **It's possible they just decided to just "do it and ask forgiveness later."**



He notes it's unlikely the signals from Starshield have caused significant disruptions so far, otherwise other satellite operators would have complained.

Tilley told NPR he has decided to go public with his discovery because the world's satellite operators should be aware of what's happening. **"These are objects in classified orbits, which could potentially disturb other legitimate uses of space,"** he said.

Starshield is a [classified version](#) of SpaceX's Starlink satellites, which provide internet service around the world. The U.S. has [reportedly paid](#) more than \$1.8 billion so far for the network, though little is known about it. [According to SpaceX](#), Starshield conducts both Earth observation and communications missions.

Since May of 2024, the National Reconnaissance Office has conducted 11 launches of Starshield satellites in what it describes as its "proliferated system."



VE7TIL

Harrisburg RAC Winterfest 2026

Saturday, January 11th, 2026, 7:00 AM—11:00 AM

Vietnam Veterans of America #542

8000 Derry Street,, Harrisburg, PA 17111

DXCC, WAS, VUCC Card Checking Available

Admission \$5

More Information at <http://www.w3uu.org/winterfest/>



DX News Briefs & Announcements



- 9G5ZZ** will not take place as DL1CW is not going to Ghana this month.
- E6SP** has been postponed to early 2026. ZL3GAV indicates that he could not “logistically... resolve what was required”.
- J75A** was forced to cancel their planned October operation. The ferry broke down and they had no other transportation available.
- XF4B** operations on FT8 are the work of Slim, as there was no Internet available and XE1B did not operate the mode. Do not QSL.
- H4ØWA** Team (Intrepid DX Group) is alleging that they paid a “fully refundable” customs bond, of over \$11,000, to their Solomon Island shipping company. They allege that the bond was stolen by the shipping company, and that they have had no help from local government in recovering the funds.
- C95CRZ** is QRV for an unspecified length of time, as time available after work. QSL via ZS6CRZ or as directed.
- TL8GD** is QRV for an unspecified length of time. QSL via SP3EDL or ClubLog OQRS.
- J88PI** is QRV through 5 November from Bequia Island (NA-025), 40 – 6, SSB SSTV and FT8. QSL via GW4DVB direct only.
- PJ2/DH8BQA** is QRV through 6 November, holiday style. QSL via DH8BQA or ClubLog OQRS
- VP2V/K6TOP** is QRV through 7 November, 40 – 10, primarily CW. QSL via LotW only.
- ZC4RH** is QRV through 7 November, 40 – 6, CW SSB and FT4/FT8. QSL via DK6SP or ClubLog OQRS
- JD1BMH** is QRV from Ogasawara through 9 November, 40 – 10, primarily CW. QSL via JG7PSJ
- 9L9L** is QRV through 10 November from Banana Island (AF-037). QSL via IK2VUC or OQRS.
- CP7DX** is QRV from Ogasawara through 10 November, 60 – 6, SSB and FT8. They will also be active on EME on 6 M, 2 M, and 70 cm. QSL via LU1FM or ClubLog OQRS.
- V84SRU** is QRV through 26 November, all bands, CW SSB and FT8. QSL via V85TL.
- 5R8TT** is QRV from Nosy Be Island (AF-057) through 12 November, 160 – 6, CW SSB RTTY and FT8. On FT8 they will use the **5R8XX**. More information at https://www.i2ysb/live/live_dxpedition.php. QSL via I2YSB.
- 9U1RU** is QRV through 20 November, 160 – 6, CW SSB RTTY and FT8. QSL via RW5C or ClubLog OQRS.
- VP8THW** is QRV through 22 November, 20 – 10, SSB and FG8. QSL via the Bureau.
- 8R1TM** is QRV through 7 December, in his spare time and weekends, 160 – 6, CW SSB and Digital. QSL via PY1SAD.
- 5V7RU** will be QRV 5 – 19 November, holiday style, HF, CW SSB and FT8. More information at <https://dxpedition.wixsite.com/5v7ru>. QSL via ClubLog OQRS
- PR5M** will be QRV 6 – 9 November from Ilha do Mel (SA-047), 10 15 20 and maybe 30, CW and SSB . QSL via PP5BZ or ClubLog OQRS
- HK4/PY8WW** will be QRV 12 – 17 November from Playa Blanca (SA-084), 10 – 80, CW SSB and Digital. Renato was unable to secure the 5J4W call that he had sought. QSL via PY8WW or as directed.
- 5X7W** will be QRV 14 November - 8 December as time permits, 80 – 10, CW and FT8/4. QSL via MØOXO.
- TY5FR** will be QRV 15 November – 11 December, including the CQWW DX CW Contest, 80 – 10, CW and SSB. QSL via DL1BUG or ClubLog OQRS.
- V47JA** will be QRV 17 – 23 November, 160-6, SSB and FT8. QSL via W5JON.
- J38W** will be QRV 23 November – 2 December, 160 — 6, CW SSB and FT8/4. QSL via MØOXO OQRS.
- YJØGC** will be QRV 23 November - 5 December from Efate Island (OC-035), HF, CW SSB and FT8/4. QSL via LZ1GC.
- P44W** will be QRV 24 November – 1 December, HF focusing on the WARC Bands, CW. QSL via N2MM.
- XU7RRC** will be QRV 25 November — 3 December from Koh Ta Kiev Island (AS-133), various HF bands and modes. QSL via RZ3EC
- CU2ARA** will be QRV 29 – 30 November, for the CQWW DX CW contest. QSL via Associacao Radioamadores dos Acores.
- S79/OK6RA** will be QRV 29 – 30 November for the CQ WW DX CW Contest. QSL via OK6RA.
- TO9W** will be QRV 30 November – 12 December including part of the CQ WW DX CW Contest, 160-6, CW SSB and FT8/4. QSL via W9ILY.
- J3WG** will be QRV 1 – 15 January from NA-024, 160 – 6, primarily FT8 with some CW and SSB. QSL via W39G or ClubLog OQRS
- XX9** (full call TBA) will be QRV 19 - 31 March with 14 operators from DX Friends. HF and 6 Meters, CW SSB and Digital. More information to be available at <https://www.dxfriends.com/xx9>
- EA8/DA2DX** will be QRV 30 March - 6 April 2026 from Fuerteventura Island (AF-004), holiday style, CW SSB and RTTY. QSL via DA2DX.
- D41IL** will be QRV sometime in March or April 2026, dates TBD, 10 Meters and the WARC Bands, CW. QSL via DL1IL

QSL Routes

6W1RD via EA7FTR 8P5A via W2SC 9H1PF via N4GNR 9N/OMØGA via VU3OPT AM25SF via EA1CW BGØDXC via BA4TB DAØUT via DJ5NF DA125ØHAS via DL7PIA DB125ØEB via DL8ARJ DLØAG via DK8QY DL1ØØDM via DL8FA E51MWA via WA7CPA EG3RGC via EA3ACA EH7DLH via EA7DA EIØIRTS via EI6AL GB5PGM via G4ENB GB7HQ via G3TXF GPØSTH via G4DIY HB9SPACE via HB9ACA HG6ØIPA via HA3JB HK1MW via N2OO HSØZJF via ON4AFU HSØZOA via EB7DX HSØZQY via F4LQA IQØID via IQ9MQ IQ7TA via IK7HTB J38DX via MØOXO KHØ/KCØW via KCØW KH6J via AH6OZ KP4/AB2RF via JJ2RCJ LC5C via LA6KOA LN2T via LA2T LN8W via LA6YEA M2G via MØOXO OF9X via OH2BH OG5B via OH5BM OG7A via OH6MW OO7Z via ON6KZ	OT4A via ON4AEK OT75KTK via LZ3HI OT7Q via ON8WV OX3IX via OZØJ OZ59A via OZ2DAN P3X via 5B4AMM P44W via N2MM P49Y via AE6Y PAØ1LH via PA7Q PA4ØMARAC via PA3CNI PDØØLH via PD9DY PDØ3LH via PD2WCW PDØ4LH via PD4JOH PD12JOTA via PD4ME PI4VPO via PE1NYQ PJ4SON via MØURX PT5K via PP5KJ PV5N via PP5KP PYØFB via MØURX SE4A via SM4HCM SD7X via DF6JC SM8T via SMØT SN1ØØFFPK via SP6IEQ SN19KJP via SQ2WKJ SN45OPW via SP3PDO SVØXAF via HB9EBC TM17FFF via F4GFE TM41FS via F41LN TM46CDXC via F5CWU TM5MUZ via F6KWP V85NPV via LZ3HI VK9DX via VK2DX VP2MAA via IK2DUW XT2AW via MØOXO ZV5CF via PP5CF
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Thanks to DL1SBF, KB8NW, NG3K, the DX-QSL Reflector, 425 DX News, DX Coffee, DX World.Net, ICPO Bulletin OPDX Bulletin and ARRL DX Bulletin for our **DX News** information.
 Thanks also to the ARRL DXCC Desk, & Bernie McClenny W3UR /The Daily DX for confirmations & additional information.

3YØK Bouvet Island Press Release

3YØK Leadership Group
Edited by OPDX

Oslo, Norway, October 24th, 2025 — The 3YØK Team remains committed to activate Bouvet Island in 2026. Our project continues and it is on schedule, as planned, with a departure date of February 1st, 2026 from Cape Town.

The team has a written contract that dictates how a shortfall of money shall be covered. Multiple members defaulted on that agreement as they for several months were refusing to pay their share of contractual obligations, exposing the team to a large financial risk, shortfall of money and cancellation of this and future DXpeditions. With a total budget of 1.7M USDs, where the team has already spent 1.1M USDs, the team has faced severe financial and contractual consequences due to their actions. Almost all of our equipment, like radio and amplifiers, are generously loaned by our sponsors, and while the antenna scope is important, it's a small cost in the total budget.

To protect the interest of everyone involved, the current team members contributed an additional amount of 150,000 USDs of our personal funds to ensure the financial success of the DXpedition. The current team's commitment is exemplified through this additional contribution as we have focused on avoiding a financial loss for everyone involved due to the breach of contract by former members.

Our focus is now solely on Cape Town logistics and operations to support the February 1st departure date. We are booking flights and working with local stakeholders to ensure a successful start. The team has a good spirit and work well towards a common goal while we want to enjoy this DXpedition. Team spirit is everything when you want to go to the most remote island on the planet. We continue our plan to set up and operate two separate camps on Bouvet, with one camp focused on North America. Camp locations will be dictated by local conditions upon arrival, keeping in mind that safety must always come first.

The leadership group interviewed 4 medical doctors interested to support the DXpedition, and the Team Doctor will be announced in due course.

Our priority remains to ensure the success of the project. The team continues to focus on the complex logistics necessary for a successful DXpedition and we thank the DX community for their continued support.



The Intrepid-DX Group Sixth Annual Youth "Dream Rig" Essay Contest

Paul Ewing N6PSE, President
Intrepid-DX Group
From their Facebook Page
Edited by OPDX

The Intrepid-DX Group is a California based 501(c)(3) Non-profit organization. Our charter is to promote amateur radio in developing nations.

We have conducted amateur radio exhibitions and youth outreach in Iraq, South Sudan, Rotuma, Iran, Ethiopia, Eritrea and North Korea. Six years ago, we began our annual youth "Dream Rig" Essay contest as a further means to reach young people and interest them in our hobby of amateur radio.

This year, we are revising our traditional essay contest and calling it "Amateur Radio for the Greater Good" We greatly appreciate the support and sponsorship of ICOM America and DX Engineering for making this year's project possible.

We will be seeking written proposals from young amateurs age 25 or younger, describing how they would establish a Club, Contest, Community or Emergency Communication station to be in a school, church, fire station, community center, hospital or other public building. This station must be in the USA and only US licensed amateurs may submit proposals. This year, rather than our past essays, we are seeking well thought-out and clearly communicated project proposals for a public access amateur radio station.

We will award one complete station: HF rig, VHF/UHF rig, power supply, coax and antennas to be used by the awardee to establish a station in a public space to be used for amateur radio training, mentoring, club use, contesting and emergency communications. In addition, the awardee will be provided with an additional HF radio for their own use and ownership.

The equipment provided will include:

- 1) ICOM IC-7300 HF Transceiver
- 2) ICOM ID-5100AD VHF/UHF transceiver
- 3) Power supply 13.8V
- 4) Two 100' lengths of DXE 400MAX Coax
- 5) Comet GP15 VHF/UHF antenna
- 6) Suitable HF Vertical or Dipole Antenna.



Project Proposals may be submitted between November 10th and December 10th, 2025.

We will announce the awardee of the complete station on December 15th, 2025.

This is a departure from our conventional essay contest. We are looking for proposals that would place the station in a secure and common area where it could be enjoyed by other licensed amateurs.

Once the winning proposal is selected, the proposal author will have sixty days to secure written permission from the owner or guardian of the facility. The written permission must indicate approval for the station and antenna to be installed. The proposal author may be the trustee of the station.

Please contact us if you have any questions.

Submissions may be submitted via email to intrepiddxgroup@gmail.com, or via US Mail to: The Intrepid-DX Group, 3052 Wetmore Dr., San Jose, CA 95148





WASH Classifieds

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Lazaroff & Suhr, Attorneys at Law
277 West Main Street, Saxonburg, PA 16056
Phone: 724-352-4905

The **WASHRag** Masthead is courtesy of Jeff Murray K1NSS, creator of DASHtoons & Dash the Dog Faced Ham!!

Find the online cartoons and stories of Dash the Dogfaced Ham & more at <https://www.jeffk1nss.com> !

Shop for Dash items at his online store on Café Press, www.cafepress.com/shopdash



For Sale: HF Signals uBITX v4.0 QRP Transceiver. Includes microphone and "official" (plastic) case. 80—10 meters, 5 W output, CW SSB & Digital. Unit is assembled!

Purchased from the original owner, lightly used since then, and will be gathering dust now that I own an xBITX.

\$85 plus shipping. Contact Ron W3WN [w3wn at arrl dot net](mailto:w3wn@arrl.net)



FCC News

Courtesy of the American Radio Relay League

Newington, CT, October 17th, 2025 – As part of a **much larger overhaul focused on deleting almost 400 obsolete wireless regulations**, the Federal Communications Commission (FCC) has announced plans to delete or modify four minor provisions of Part 97.

ARRL's Washington Counsel has reviewed the proposal and agrees that the deletions are to obsolete rules and will have no impact on today's modern Amateur Radio Service. One of the **deletions was suggested by ARRL** as part of an earlier FCC request for public input on rules ripe for deletion.



The proposed regulatory changes are to:

1. **Delete § 97.27.** This provision relates to the FCC's right to modify station licenses. The Commission rationale for deletion is that it duplicates Section 316 of the Communications Act. Its deletion will result in no substantive change to the right of the FCC to modify a station license.
2. **Delete § 97.29.** This provision specified the procedure to replace paper licenses. The FCC stopped producing paper licenses at the end of 2020, having implemented a system that allows any licensee to download license originals using the password-protected area of the FCC's ULS computer database system that is web-accessible. The ARRL proposed deleting this section in comments filed earlier this year.
3. **Delete § 97.315 (b)(2).** This provision grandfathered HF amplifiers purchased before April 28, 1978 by an amateur radio operator for use at that operator's station and also grandfathered those manufactured before April 28, 1978 for which a marketing waiver was issued. The applicability of this rule has long passed.
4. **Delete § 97.521(b) and Appendix 2.** This rule and appendix relate to VEC regions, which were based on the traditional amateur call sign areas. The FCC no longer limits VECs to regions and there is no reason for doing so given the nature of remote exams.

"Direct Final Rule" proceedings such as this are limited to rules that are no longer applicable because they have sunset by operation of law; govern an expired event; regulate an obsolete technology; regulate virtually a null set of FCC licensees; regulate an outdated market structure; or otherwise are no longer used in practice or otherwise in the public interest.

The deletions will become effective 60 days after publication in the Federal Register unless the Commission finds that adverse comments filed within 20 days of publication raise significant issues that merit additional consideration.

On Sunday, October 19th, ARRL Atlantic Division Director Bob Famiglio K3RF was interviewed, live on FOX 29 in Philadelphia.

A recording of the interview was just posted on a YouTube page, created by another guest on that show, storm chaser Lou Ruh WX3I.

The link to the video is <https://youtu.be/JmFp9HXm3Y8>

"It was an unscripted, free-form discussion that went wherever our host wanted it to go, but it worked out well. We got to explain ham radio during this one hour live presentation on air with the FOX 29 local digital channel and also on the FOX 29 live stream as well. We pulled some strings, and thanks to some work by Lou WX3I, it is available on a YouTube channel. I am sending our meteorologist host of the interview, Dean Anderson, an ARRL License Manual." posted Bob. "The host received a number of email inquiries from the public about ham radio after this interview. He suggested another follow-up show in the near future on other ham radio subjects."

US Amateurs by Class as of October 31st, 2025:

Novice	5944	0.709%
Technician	415,922	49.64%
General	203,746	24.32%
Advanced	33,055	3.945%
Extra	167,050	19.94%
Club	12,147	1.450%
Total	837,864	

Information courtesy of AE7Q.com, based on FCC ULS Data .

PA Amateurs by Class as of October 31st, 2025:

Novice	278	1.043%
Technician	11,784	44.2%
General	6,836	25.64%
Advanced	1,318	4.94%
Extra	6,011	22.55%
Club	435	1.632%
Total	26,661	

Information courtesy of AE7Q.com, based on FCC ULS Data

Latest Region 3 Sequential Calls, Issued as of October 31st, 2025:

Group A	AC3PS
Group B	KF3EW
Group C	(none available / all issued)
Group D	KD3BZK

Information courtesy of AE7Q.com, based on FCC ULS Data

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Just send an email to w3wn@n3sh.org & we will take care of the rest!

Has Roadway found the tower yet?



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The South Hills Hamfest — Now in our **THIRTIETH** big year!
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Sunday, February 22nd, 2026

8:00 AM until 3:00 PM Rain or Shine (or Snow!)

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3735 Buffalo Drive, South Park Township, PA 15129

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Talk-In on 146.955(-) and 443.650(+) 131.8 PL

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(800) 545-8881

Breakfast & Lunch will be available!



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MAIN PRIZES

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Second Prize: TBA

Third Prize: TBA

Additional Hourly Door Prizes! 2 Special Black Box Prizes (Separate Drawings)!

Main Prize tickets are \$2.00 each, 3 for \$5.00, 7 for \$10, 15 for \$20, 40 for \$50, 90 for \$100

All Prizes Subject to last-minute changes

For Table Reservations, or More Information, Please Contact:

Carol Danko KB3GMN at (412) 884-1466 n3sbf@comcast.net

E-mail us directly at washarc@yahoo.com Check out our website too! www.n3sh.org

Please Note: Early Table Reservations must be paid in full on or before January 31st, 2026.

Reservations received after February 1st, 2026 must include payment in full.

Reserve now... we have sold out in advance fifteen years running!

Hamfest Table Reservation Form—Please PRINT LEGIBLY ALL INFORMATION

Name: _____ Email: _____

Address: _____

Phone: () _____ - _____

City: _____ State: _____ Zip: _____

Call Sign: _____

Tables WITH Electricity: _____ X \$15.00 = _____

Tables WITHOUT Electricity: _____ X \$12.00 = _____

Please make all checks payable to:
WIRELESS ASSOCIATION OF SOUTH HILLS
PLEASE MAIL RESERVATION TO:
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c/o CAROL DANKO KB3GMN
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Pittsburgh, PA 15227-1244

We reserve the right to resell any tables not occupied by 8 AM, unless prior arrangements have been made!



WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Membership Application, New or Renewal



I would like to join WASH! I am interested in the following type of membership: **New Membership** **Membership Renewal**

(check quarter _____)
(check one)

1st Qtr Jan-Mar **2nd Qtr** Apr-Jun **3rd Qtr** Jul-Sept **4th Qtr** Oct-Dec

(F1) Full Membership: \$20.00 \$15.00 \$10.00 \$5.00
 (F2) Full Membership < 18 or > 65 yrs of age: \$10.00 \$7.50 \$5.00 \$2.50
 (A1) Associate Membership: \$10.00 \$7.50 \$5.00 \$2.50

(FM1) Family Membership (\$3.00 x No. of household family members): \$ _____

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Call Sign: _____

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Birthday: _____

New Members Only:

- I do NOT want to be added to the Club E-Mail Reflector
 - I do NOT want to be added to the Electronic Newsletter Mailing List
- (If you have an Email address, you Will be added to both lists UNLESS you choose to Opt-Out)

ARRL Member? Yes No Family ARRL Member? Yes No

Date: _____

Signature: _____

Amount Enclosed: \$ _____

N3RDV has requested that all membership requests and renewals include an application so that his information is up to date

Please make your check or money order payable to the club treasurer, Mark Stabryla. The Wireless Association of South Hills, Inc. reserves the right to accept or reject new memberships or renewals. Please return completed membership form along with check/money order to the club treasurer or mail to:

WIRELESS ASSOCIATION OF SOUTH HILLS, INC.
 c/o Mark Stabryla N3RDV, VP/Treasurer
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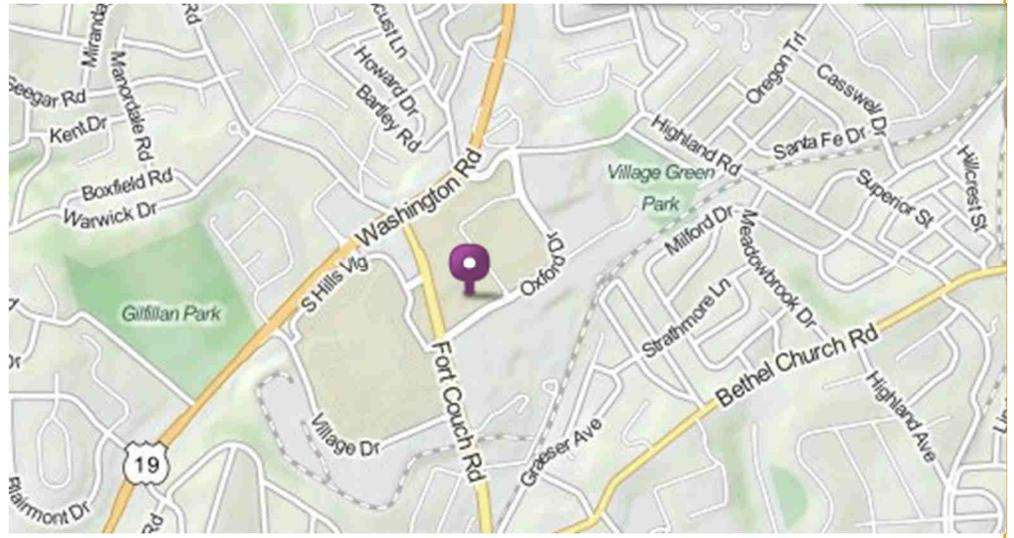
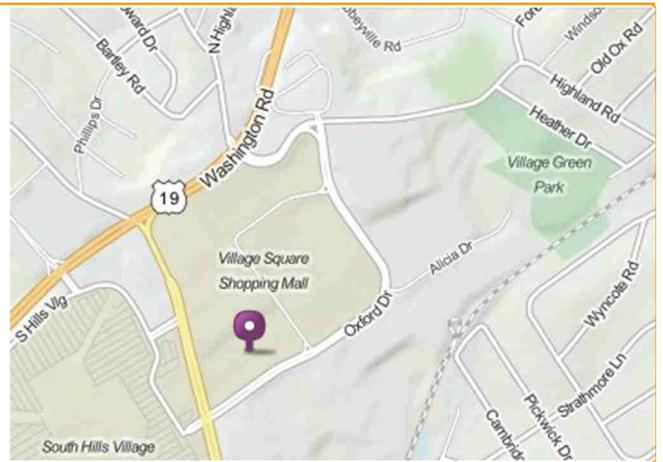


2025 WASH Meeting Location

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South Hills Village Mall, just off of US Route 19



The WASHRag

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Ron Notarius W3WN, Editor

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