



WASHRAG

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January 2000

WA3SH
N3SH W2K

Wireless Association of South Hills

Amateur Radio Restructuring!

On December 30th, the Federal Communications Commission released their Report & Order on WT Docket 98-143 — more commonly known as the Amateur Service Restructuring. As a result, significant changes to the Amateur Service will be taking place as of April 15th, barring a last minute change or a court order.

The high points:

- The Novice, Technician Plus, and Advanced Class licenses are discontinued. No new Novice or Advanced tickets will be issued. Existing licensees retain their privileges & can renew indefinitely.
- The only code speed that will be required for General and Extra class licenses after April 15th will be 5 WPM.
- Existing Advanced amateurs who pass Element 4B prior to April 15th will qualify for the new Extra Class ticket. Pre-1987 Techs, and Novices and Techs who have passed Elements 3A & 3B prior to April 15th will qualify for General. Exact details on how to upgrade (it will NOT be automatic) are pending.
- RACES licenses will be discontinued.
- NO frequency allocations are being changed at this time.
- A new Club Call Sign coordinator position has been created, with more details to follow.

Reaction amongst much of the amateur community were quick, with many Internet mail reflectors bombarded with strong opinions against the proposal. Later reactions showed that many amateurs supported the changes. A poll on the **QRZ?** Web site showed reaction amongst those voting almost evenly split, with a large percentage uncertain.

No matter how you feel about the the changes, they're still coming.

The Wireless Association was amongst the first WPA groups to start planning for the new rules. We're going to start having regular Q&A sessions for anyone who has questions about what to study for the upcoming changes. The April VE exam will be rescheduled to occur prior to April 15th. And we're going to try to contact as many inactive amateurs in our area as possible to let them know about the changes if they want to take full advantage of their new privileges.

Additional information inside on Page 5.

Next Meeting: January 13th, 2000

The next monthly meeting of the Wireless Association of South Hills, Inc. will be Thursday, January 13th, at the John McMillan Presbyterian Church, 875 Clifton Road in Bethel Park, starting at 7:00. Talk-in on the 146.955 N3RNX/R Repeater.

Pete Cole, N3RNX, will present a brief program on test equipment and alignment procedures. He will also help anyone needing to have their equipment checked, so if you have questions on your gear, bring your questions and your gear!

All radio amateurs & interested guests are, of course, invited! See you there!

WASHfest 2K News

We have less than 2 months (by the time you read this) left before WASHfest 2000. Plenty of time... right? Not necessarily.

Many of our fellow hams are creatures of habit. If they haven't heard about our date change, then they're going to show up on February 27th to a quilt show, or an auction, or something other than a hamfest. So now is the time to start mentioning on the nets you frequent and at the clubs you visit that we have this nifty little hamfest coming up... and did you hear about the date change?

The gate at most hamfests everywhere was off last year — not just WASHfest. So we can't just sit back and wait for our fellow amateurs to come to us. We HAVE to put the word out, remind people, encourage people to come down and spend a Sunday morning with us.

As you travel among other clubs, please bring along some main prize tickets. Hams who can't make a particular hamfest will gladly buy prize tickets, given the chance. "Need not be present to win" means just that. (See W3SRL for tickets). And many of those who buy advance tickets still show up at WASHfest and join the fun anyway!

We have one of the best small hamfests in the Eastern US on our hands (OK, so I'm biased!). It takes just a little effort on all of our parts to keep it that way, now and for years to come!

*73, Ron Notarius WN3VAW, President
Wireless Association of South Hills, Inc.
N3SH / WA3SH / W2K*

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Schedule of Events

- N3SH/WA3SH WASH Club Net, 9:00 PM ET Sunday Nights on the 146.955 & 443.650 Repeaters

NCS Schedule:

- ⇒ January 2nd: Ron WN3VAW
- ⇒ January 9th: Chuck N4MIS
- ⇒ January 16th: Greg KQ3DX
- ⇒ January 23rd: Rich N3SBF
- ⇒ January 30th: TBA

LOOKING AHEAD:

- **Breezeshooters Ten Meter Groundwave Contest**, 9 PM (EST) to 1 AM, February 19th. Full details & more information available on the Breezeshooters web site, www.breezeshooters.org
- **WASHfest 2000**, February 20th, CSVFD Memorial Hall. W2K Special Event Station operating All Digital Modes right from the middle of the hamfest!

January 2000

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1 RA Erie VE Test PSK31 Millenium Contest SARTG RTTY Contest Y2K QRP Contest
2 Elwood City ARA Mtng PSK31 Millenium Contest SARTG RTTY Contest Y2K QRP Contest	3 Bum of the Month Lunch Breezeshooters Net Beaver Co Public Service Triple "A" ARA Club Net 2 Rivers ARC Club Net	4 SATERN Net Skyview RS Meeting Butler Co ARA Meeting SHBP&M Meeting Carnegie Tech RC Meeting	5 Allegheny Co ARES Net Allegheny Co SkyWarn Westmoreland Co ARES SCARC Social Night Uniontown ARC Meeting	6 WACOM Meeting RA Erie Meeting	7 Elco ARS Meeting ARRL RTTY Contest	8 Breezeshooters VE Test Hilltoppers VE Test Skyview VE Test ARRL RTTY Contest NA QSO Party CW
9 ARRL RTTY Contest NA QSO Party CW	10 Breezeshooters Net Beaver Co Public Service Triple "A" ARA Club Net 2 Rivers ARC Club Net ARL Lawrence Co Mtg	11 SATERN Net Foothills ARC Meeting Nittany ARC Meeting Ft. Venango M&K Mtng.	12 Allegheny Co ARES Net Westmoreland Co ARES SCARC Social Night NHARC Meeting	13 WASH Meeting Horseshoe ARC Meeting Beaver Valley ARA Meeting Triple "A" ARA VE Test	14 2 Rivers ARC Meeting	15 2 Rivers ARC Hamn/Eggs Skyline ARC Hamfest NA QSO Party Phone 2000 CW QRP Contest
16 Elk Co ARA Meeting WPA Repeater Council NA QSO Party Phone 2000 CW QRP Contest	17 Breezeshooters Net Beaver Co Public Service Triple "A" ARA Club Net 2 Rivers ARC Club Net	18 SATERN Net SCARC Meeting Skyview RS Meeting Pymatuning ARC Meeting Juniata Valley ARC Meeting McKean Co ARC Meeting	19 Breezeshooters Mtg. Allegheny Co ARES Net Allegheny Co SkyWarn Westmoreland Co ARES Southern PA ARC Meeting	20 WASH VE Test Triple "A" ARA Meeting Somerset Co ARC Mtng SHARC VE Test	21	22 SWPA Packet Group Mtng ARRL VHF Sweepstakes
23 ARRL VHF Sweepstakes	24 Breezeshooters Net Beaver Co Public Service Triple "A" ARA Club Net 2 Rivers ARC Club Net	25 SATERN Net Radio Forum Erie VE Test Mercer Co ARC Meeting Triangle ARC Meeting	26 Allegheny Co ARES Net Westmoreland Co ARES SCARC Social Night NHARC Activity Night Ft. Armstrong WA Meeting	27 WASH Q&A & Study Session WACOM BOD Meeting	28 KD3QQ VE Test (in Plum)	29 Indiana Co ARC VE Test CQ WWW 160 CW Contest YL I SSB QSO Party Kansas QSO Party
30 MD Mobilers Hamfest CQ WW 160 CW Contest YL I SSB QSO Party Kansas QSO Party	31 Breezeshooters Net Beaver Co Public Service Triple "A" ARA Club Net 2 Rivers ARC Club Net	2/1 SATERN Net Skyview RS Meeting Butler Co ARA Meeting SHBP&M Meeting Carnegie Tech RC Meeting	2/2 Groundhog Day Allegheny Co ARES Net Allegheny Co SkyWarn Westmoreland Co ARES Uniontown ARC Meeting	2/3 WACOM Meeting RA Erie Meeting	2/4 Elco ARS Meeting	2/5 RA Erie VE Test 2 WEEKS TO WASHFest 2K!

WASH 2000 OFFICERS

Executive Committee:

President	Ron Notarius WN3VAW
VP/Secretary	Steve Lane W3SRL
VP/Treasurer	Mark Stabryla N3RDV

And We Couldn't Do It Without:

N3SH / WA3SH / W2K Trustee	Steve Lane W3SRL
VE Team Liaison	Bob Sanford AA3FI
Club Communications	Bob Sanford AA3FI
Club Quartermaster	Harold Rosenberger KB3CPI
Club Librarian	Paul Lusardi NOVLR
N3SH/WA3SH WASH Net Managers	
2 Meter FM	Greg Babin KQ3DX
10 Meter Digital	John Benitez KE3XB
South Hills Hamfest Co-Chairman	Steve Lane W3SRL
(WASHfest 2000)	Bill Hill W3VWH
Field Day 2000 Chairman	Greg Babin KQ3DX
PA QSO Party Coordinator	(open)

Club-Affiliated Repeaters:

Mt. Lebanon	N3RNX/R	146.955 -	PL 131.8
Mt. Lebanon	W3SRL/R	442.550 +	PL 131.8
Canonsburg	N3FFP/R	443.650 +	PL 131.8

N3SH/WA3SH WASHNet, the weekly on-air net of WASH, meets every Sunday Night, 9:00 PM ET, on the 146.955 repeater, usually followed by the 10 Meter SSB Informal Net on 28.469 MHz.

The **10 Meter Digital N3SH/WA3SH WASHNet** meets on 28.105 MHz at 9:30 PM ET, starting with RTTY. (Frequencies are +/- QRM). All radio amateurs, WASH members or not, are welcome to join in!

THE LEGAL STUFF

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Member, Amateur Radio News Service

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The **Wireless Association of South Hills, Inc.** was founded in 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 of both the N3RNX/R Repeater System and the N3FFP/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 January 20th!

Our Next VE exam session will be **Thursday, January 20, 2000**, at **7:00 PM**, at the *John McMillan Presbyterian Church*, 875 Clifton Road, Bethel Park, PA. Talk-in on 146.955 MHz. All examiners are ARRL affiliated. Morse code exams are multiple-choice. Walk-ins are welcome, but if you plan on attending the test session, please contact VE Team Liason Bob Sanford AA3FI, telephone (724)-356-4020 or E-Mail: sanfordb@access.hky.com

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 or Cash in the amount of \$6.65 (payable to: ARRL VEC)

Remember: Novice written (element 2) and 5 wpm (element 1A) code exams are still **free**.

FYI Networks, an internet provider in the Pittsburgh & surrounding areas since 1995, is offering all members of WASH their Basic Internet account, normally \$20/month, for only \$15/month. This includes one e-mail box, 3 MB of disk space, web page hosting, Telnet & FTP access. Call FYI toll-free 877-FYI-4NET, or e-mail them at sales@fyi.net, for more details or to sign up. **You must mention that you are a member of the Wireless Association of South Hills to get the discount rate.** Many thanks to FYI Networks for making us this special offer available.

Ham Threads W2K Update!

Ham Threads of Perry, Michigan is providing embroidered hats, shirts and jackets with the club logo. But you already knew that, it's been in this space in the newsletter for months.

Well, we're putting together another order, which will be a WASHfest 2000 special order. What does that mean? The club logo on the shirts & jackets will display the special W2K callsign, and have "WASHfest 2000" added to them. This is going to be a one-time special because after the hamfest is over, we will never order this shirt/jacket style again! (We may never have W2K again!)

And if you choose to have your name & call embroidered on the right side of the shirt, we'll add "WASHfest 2000 Committee" so everyone will know that you're part of the best little winter hamfest in Pittsburgh!

So if you'd really like to look sharp at WASHfest, get your order in to W3SRL or WN3VAW on or before January 15th. Order form with prices & styles is available on Page 11. Please make all checks payable to Ham Threads.

With all the talk of the new FCC rules going on, many hams have a fear of amateur radio turning into a "10 - 4 good buddy" type of service.

Remember, it's up to you to set a good example for new amateurs!

de N3KEH: "Thanks to each and everyone who volunteered to be Net Control for WASH the past two years and nine months. Each and every one of you contributed to the success of our Sunday Night Net and not only my but the Clubs thanks go to each and every one of you. Please extend the same cooperation to your new Net Coordinator Greg KQ3DX. Thanks again." Don N3KEH

© **Copyrights:** Now that the *WASH*Rag is and will continue to be available on the Web, many club members who have contributed photos in the past have been concerned about the Copyright notice we include in the Legal Stuff. Are you giving up the rights to your stuff when we publish it? As far as we're concerned — nope. In the future, we will make it clear that your photos and all rights to them are yours, and we are only using them with your permission (for example, see VKØLD's photo on Page 8).

N3SH: Haven't received the email, or read or heard Amateur Radio *Newsline* #1138? Then see Page 9.

More on Restructuring: As mentioned on Page 1, we're going to be rescheduling the April VE exam to help get everyone who needs to pass an exam element prior to the rule changes. At deadline, we're not sure if it will be on April 6th or 13th (if it's the 13th, we'll be swapping the April VE test & meeting night). Final decision on this should be available by meeting night.

Starting the week **after** the January VE test, on January 27th, we're going to start holding informal Q&A/study sessions for anyone with questions on rules, regulations, theory and practice. Again, the idea is to help anyone (amateur or not, member or not, all are welcome) who is trying to get exam elements passed. We're also going to have some recent successful test candidates provide tips on how to study & prepare for the tests. Other clubs have announced formal classes (see Page 7) and we will also do so should there be sufficient need. Let us know!

Field Day? Greg KQ3DX has volunteered to again server as WASH FD Chairman. (Honest, I didn't twist his arm!) If you have any comments or suggestions for this year's site, setup, food, or whatever, contact Greg at via email him at kq3dx@hotmail.com. Note that Greg's work schedule prevents him from attending most meetings, so email is the best way to get ahold of him.

More WASHfest 2000: We're very happy to report that Tom Dandrea N3EQF (of LogEQF fame) will be joining us this year! For the first time (No, NØVLR doesn't get a commission!) Still awaiting word from some other "names" on whether or not they're coming...

Y2K? Isn't that a German special event station?: In addition to the crew operating out of the Mt. Lebanon EMA center (see W3SRL's article on Page 4), many other WASH members joined ARES/RACES volunteers all over the area to be at the ready for... nothing, as it turned out. We want to also acknowledge Ted WN3BOJ, who spent the evening as the voice of the City of Pittsburgh EOC, along with everyone else who gave up the parties and celebrations to be ready, just in case \$omETHing i &^#J...

It's That Time of Year Again — WASH 2000 Dues Now Due

Minutes, December 9th 1999 Meeting

Due to the Christmas Party, no formal meeting was held.

Winners of the WASH Christmas Party Photo Contest:

Best QSL Card	WN3VAW		
Best Home-Made QSL Card	N3KFD	— W2K Design	
Judge's Choice	NØVLR	Best Portable Shack	W3SRL
Most Exotic QTH	NP2JF	Best Mobile Shack	W3SRL
Most Unique Shack	NP2JF	Best Unlimited Shack	NØVLR
Best Operating Position	KB3CPI	Best Classic Station	NØVLR
Best Limited Shack	N3ZNI	Honorable Mention	N3ZNI

South Hills Hams Support Mt. Lebanon EMA

Steve Lane W3SRL Vice President/Secretary WASH

As the dreaded midnight hour approached on December 31st, at least 10 local amateurs volunteered to assist the Mt. Lebanon Emergency Management with standby communications 'just in case.' Strategically poised at prominent locations throughout Mt. Lebanon, the hams "shadowed" a volunteer firefighter in an emergency vehicle in order to provide fall-back communications in the event of a telephone outage.

The outage of course never came. Neither did any of the other gloom & doom predicted by many. A big snoozer all over the world; A non-event. Was all the preparation overkill? Depends on your perspective.

The casual observer would say that the whole Y2K situation was blown way, way out of proportion. In many cases this was true, such as the local resident who was quite proud of her hoarded inventory of 100+ cans of sardines and god only knows how many rolls of toilet paper. (Rule #1, DON'T VISUALIZE!!!) Countless others have bought generators and stockpiled gasoline and other supplies in their garages.

A more knowledgeable person however will tell you that in the public safety environment, there is no such thing as overkill. You can never be TOO prepared for an emergency. The public expects uninterrupted emergency service whenever they call for it, and they want it NOW. After all, they pay our salaries! The truth of the matter is, the Y2K non-event, as I have begun calling it, turned into a life-sized training event for another yet-unnamed local disaster. This, as they say is good. The more we practice preparing and responding to emergencies, the better we will fare when the real deal comes along.

In addition to the skills practiced during the Y2K non-event, valuable PR was gained for amateur radio with the local emergency services. Without exception, every one of the firefighters who were shadowed was suitably impressed with the ham hobby and our capabilities. They were dumbfounded that anyone would willingly give up their own celebration to sit in a noisy fire truck for 3+ hours "just in case". Senior EMA managers were likewise impressed with not only our capabilities, but the professionalism displayed by the amateurs who responded. Courteous, businesslike, and totally prepared for the worst. They never knew that the amateur community even existed, much less was available.

Please allow me to thank the following amateurs for volunteering their time to the cause for Y2K: Bob McCloskey W3RJM & Mike Tanner WB5NLJ as Co-Net Control Ops; Ron Notarius WN3VAW, Mike Serowik N3BSQ, Greg Babin KQ3DX, Mark Stabryla N3RDV, Paul Lusardi NØVLR, Mike Kaufman WB3BPH, Ed Meredith W3HXJ, & Jenny Ladd N3VJSJ as field operators. A job well done, and a boost for future involvement with emergency management in the South Hills Area.

1999 PA QSO Preliminary Results In!

Doug Maddox W3HDH, Chairman, Pennsylvania QSO Party

The Preliminary Results for the 1999 Pennsylvania QSO Party are now posted on the web site, <http://members.aol.com/doughdh/pagsoparty/paqso.htm> (Note there is no www & it is htm, not html.).

Coffee mug orders will go in by January 1 - delivery sometime in March. (or earlier). Final results will be mailed — when all logs are checked, hopefully by February. Plaques and certificates will be mailed at the same time.

By the way: New designs for the coffee mugs this year and next. Also we will be initiating new designs for desk plaques for 2000; These are going to be really nice!

An outstanding effort by all and the most "Worked all 67" entries we have ever had. Special thanks to NA2X for handling the out-of-state e-mail logs, and early thanks to WV2B and W3JXP for assistance with the plaques. And to the Weekend Warriors (WA3SES and the group) for help with the mugs distribution.

Enjoy the prelims!

WASH Members Scores:

<u>Call</u>	<u>QSO's</u>	<u>Co's</u>	<u>Sec's</u>	<u>Score</u>	<u>Club Affil.</u>
N3WAV/M	328	63	19	32,796	SKY
WN3VAW/R	304	58	40	32,392	WASH
WA3SH	207	63	21	20,090	WASH
KQ3DX	136	49	27	10,536	WASH
W3SRL/M	110	37	17	8,140	WASH
N3KEH	103	45	17	6,586	WASH
N4MIS	100	42	10	5,600	WASH
W3WH	52	18	18	3,086	WASH
NOVLR/R	34	18	6	2,016	WASH
KE3XB	24	19	3	928	WASH

Notes:

/M: Mobile Station (Total for all counties shown)

/R: Rover Station (Total for all counties shown)

Totals shown include all eligible bonus points.

N3WAV is ineligible for the WASH high score certificate because he entered as a member of the Skyview Radio Society!

WA3SH is incorrectly listed as being in Allegheny County, not in Clarion County.

All of W3WH's contacts are CW only! (Surprised?)

Also, congratulations are in order to N3IXR, with 1022 QSO's, all 67 counties, and 168,613 points, appears to have won Clarion County for 1999.

"Hi Friends,

I want to inform everyone I have closed the VE Testing Sessions of the Greater Pittsburgh VHF Society as of Saturday, December .4th, 1999. Our testing session had 1 amateur take the 5 wpm code test.

I have been in charge since February 1993. My VE's have done an excellent job and have been most dependable! "

— Jim "Bucky" Cottrill K3LIE buckyk3lie@aol.com



The 12 Frequently Asked Questions about Amateur Radio Restructuring

ARRL Web Extra courtesy of the American Radio Relay League.

1. Will anyone lose any Amateur Radio operating privileges after April 15, 2000?

No! All current license classes and privileges will remain the same, and all licensees will be able to renew their licenses indefinitely. (The sole exception is for those who obtained a Technician license or exam credit prior to March 21, 1987--see question 4, below.) The primary difference is that the FCC will

stop issuing new Novice and Advanced class licenses after April 15, 2000. Beyond that, current Technician and Technician Plus licensees will be lumped into a single Technician licensee FCC database. When renewed, current Technician Plus licenses will be stamped simply "Technician." Technicians who have passed Element 1, the 5 WPM Morse code examination, will enjoy current Tech Plus HF privileges, but the burden of proof of having passed Element 1 (5 WPM or any higher Morse code element) will be on the licensee.

2. I currently hold a Tech Plus license. Can I take the current General class written examination (Element 3B) right now, then apply for an upgrade to General after April 15, 2000? I'm a little confused on this point.

Yes! The FCC has told the League that current Tech Plus licensees holding a Certificate of Successful Completion of Examination (CSCE) for Element 3B on April 15, 2000, may apply for a General class upgrade. The present Element 3B examination has 30 questions; the new Element 3 test will have 35, so the advantage to test before April 15, 2000, is slight. CSCE holders must attend a Volunteer Examiner session, complete Form 605, attach a valid CSCE, and pay the required application fee (\$6.65 for the ARRL-VEC), if the VEC you use charges a fee. To be valid on April 15, 2000, your CSCE will have to be dated on or after April 17, 1999. A CSCE is only good for 365 days.

3. I hold an Advanced class license. Can I take the current Amateur Extra class written examination (Element 4B) right now, then apply for an upgrade to Extra after April 15, 2000?

Yes. See question 2, above. The advantage here is that the current Advanced licensee will face a slightly shorter 40-question examination under the current licensing regime to get a CSCE for the current Element 4B. The new Extra class Element 4 will contain 50 questions (and is expected to contain many of the present Advanced class question pool technical questions). To be valid on April 15, 2000, your CSCE will have to be dated on or after April 17, 1999. A CSCE is only good for 365 days.

4. I got my Technician license under the old system prior to March 21, 1987, and I now hold a Tech Plus license as a result. I understand that I'm now eligible to upgrade to General without having to take an additional examination. Is this correct?

Yes. Holders of a pre-March 21, 1987, Technician class license (or a CSCE) may claim credit for a new General class license after April 15, 2000. This is because under the old system, the written examination for Technician and General class was identical; the only difference was that Technicians had to pass a 5 WPM Morse code test, while Generals had to pass a 13 WPM Morse code test. The upgrade is not automatic, however. You will have to apply through a Volunteer Examiner test session, complete Form 605, attach documentary proof of having completed the requirements for a Technician license prior to March 21, 1987, and pay an application fee, if any, to the VEC involved.

5. What do I need for "documentary proof" of having held my Technician license before March 21, 1987?

Obviously, if you have an original or a copy of your Technician license issued anytime prior to March 21, 1987, that would suffice. Other documentary evidence could include an original CSCE for Element 3 issued prior to that date; an FCC verification letter of having held a Technician license prior to March 21, 1987; a document from the FCC's contractor, ITS Inc; or possibly a Callbook listing dated prior to March 21, 1987, indicating your license class as Technician.

6. I've lost my old license and didn't keep any copies. How do I get verification from

the FCC that I held a Technician license prior to March 21, 1987?

You can write the FCC, Wireless Telecommunications Bureau, 1270 Fairfield Rd, Gettysburg, PA 17325. Provide the FCC with your name, address, and current call sign as well as all details of your licensing. The FCC may be able to verify in writing that you held a Technician license prior to March 21, 1987. You also may contact ITS Inc (visit <http://www.itsdocs.com/>). For a fee, ITS will research prior licensing records and should be able to provide you with the necessary documentary proof.



7. I've got an Advanced ticket now. Someone told me that I'll revert to General on April 15, 2000. Is this true?

Absolutely not! This rumor has been making the rounds on the Internet and on-air discussion groups. You will continue to be an Advanced class licensee and have Advanced class privileges after April 15. Again, no one loses any privileges, and all license classes stay the same.

8. How can I find out where there's a Volunteer Examiner session so I can apply for an upgrade or take an examination element?

A session search engine is available on ARRLWeb at <http://www.arrl.org/arrlvec/examsearch.phtml>. Also, feel free to contact local VEs or ask local clubs for information on testing sessions in your area.

9. I now hold a General class ticket. Since there won't be any more Advanced tickets issued after April 15, 2000, can't I just take the current Amateur Extra written examination (Element 4B) and use the CSCE to get my Amateur Extra when the new rules become effective?

Nice try, but, the answer is no. If you're going to take your examination before April 15, 2000, you must complete both Element 4A (instant upgrade to Advanced) and Element 4B, then take your CSCE for Element 4B to a VE session on or after April 15 to apply for your Amateur Extra ticket (this means filling out Form 605 and paying the application fee, if any, to the VEC). And yes, in this example, it means you would need to appear at two test sessions. You also could just wait until April 15 and take the single 50-question Extra class written test.

10. I've got my Advanced now and want to take Element 4B before April 15, 2000. What license manual should I study?

The new question pool has not been developed yet for the post-April 15, 2000, tests. Use the current Extra Class License Manual, available from the ARRL. New study guides will be developed to reflect the new testing regime. Likewise, those wanting to take Element 3B to upgrade from Tech Plus to General should study the current General Class License Manual, available from the ARRL.

11. Can I use my valid Element 4B credit CSCE for the Extra written examination element to upgrade before April 15, 2000?

Only if you also pass the 20 WPM Morse code examination. Otherwise, you'll have to apply after April 15, 2000, when the new rules become effective.

Remember, your Element 4B CSCE must be dated on or after April 17, 1999, in order to be valid on April 15, 2000. A CSCE is only valid for 365 days.

12. I'd heard that Novices and Tech Pluses would be getting an automatic upgrade to General when the new rules go into effect. Is this true?

Unfortunately, no. In its comments to the FCC, the ARRL had proposed that the FCC upgrade all holders of Novice and Tech Plus licenses to General class as a one-time action to permit "refarming" current Novice/Tech Plus HF subbands for higher-class licensees.

The FCC did not adopt this recommendation in its Report and Order of December 30, 1999, however.

ULS Registration 101 — It Doesn't Get Any Simpler Than This!

Rick Lindquist N1RL with an assist from Bart Jahnke W9JJ

from ARRLWeb Extra courtesy of the American Radio Relay League

The FCC says only a small minority of the Amateur Radio population has registered in the FCC's Universal Licensing System, which was deployed for the Amateur Service on August 16, 1999. If you're unregistered because you're not sure how to register, here's a simple yet detailed ULS primer for those registering on-line.

- 1. Start Netscape Communicator ver 4.5 or later. (Other browsers may work, but the ULS supports only Netscape. It's available free at <http://www.netscape.com> --click "Browsers"). The FCC indicates that the following browsers have been tested and are presently compatible with ULS: Netscape Communicator vers 4.7, 4.61, 4.51 and 4.5
- 2. Go to the Universal Licensing System home page, <http://www.fcc.gov/wtb/uls>
- 3. Click "TIN/Call Sign Registration" on the main ULS screen.
- 4. On the next screen, check "Register Now" and click "Continue".
- 5. On the next screen, check "An Individual" and click "Continue".
- 6. You should now be at the Form 606 screen, identified in tiny print on the upper left. Complete only the "Licensee Information" part of the form--the top part. You do not need to complete "Contact Information." (That's designed for those who deal with the FCC via a communications law firm or other third party.)
- 7. The "Taxpayer Identification Number" or "TIN" is your Social Security Number. Enter your SSN without any hyphens or spaces (ie, 123456789).
- 8. Complete your name and address information. First name, middle initial, last name, and any "Suffix" such as "Sr", "Jr", or "III", as appropriate. You may provide a PO Box address, a street address, or both. You must include a ZIP code. The system will detect if the ZIP code does not match the state provided.
- 9. Form 606 still requires you to put something in the telephone number field, even though the FCC has said that a telephone number is not now required of amateurs and that it will not make telephone numbers public. If you do not wish to give the FCC your telephone number, you can fill this field with zeros or with your area code plus 555-1212. A fax number is not required. The FCC does not require an e-mail address, so if you prefer not to provide it, leave that field blank.
- 10. Once you've provided all the "Licensee Information" scroll down to the bottom of the screen.
- 11. At the bottom of the screen you must pick a password of at least five characters. We recommend that you do not use your call sign for this. Enter your new password in the "New Password" field. The characters you type will be displayed as asterisks (*) on the screen, so type carefully.
- 12. Verify the password you've selected by entering it again in the "Verify Password" field. Again, the characters you type will be displayed as asterisks (*) on the screen.



- 13. Type in a personal identifier in the next field. The FCC suggests using your mother's maiden name, but any word or name you prefer will suffice, provided it fits the field.
- 14. If you click "Notice to Individuals" it will tell you that everything but your Social Security Number will be available for public inspection. The FCC has told the ARRL that it will not make telephone numbers or e-mail addresses public. We have no reason to date to believe that this has not been the case.
- 15. Once you're happy with your choices, click "Submit".
- 16. If you leave out anything or make an error, the ULS will list "Error(s)" when you attempt to submit the form. If this happens, go back and correct the errors identified and click "Submit" again.
- 17. Once you have the form correctly completed, you'll be asked to submit your call sign(s). Click "Enter Call Signs" and follow the directions. If you are not yet licensed (you don't have a call sign yet) you can click "Continue" without entering a call sign. If you have no call sign yet, skip over the next item.
- 18. You should now be on the screen that requests you to enter your call sign(s). Enter your individual Amateur Radio call sign in the first space provided. If you are a club station trustee, you may enter your club station call signs, but this is not necessary. The FCC requires a separate registration and an Assigned TIN for club stations.
- 19. Once your call sign(s) are entered, click "Submit" at the bottom of the form.

You now should be registered in the ULS. Your screen should display a form that shows your "Licensee Information" (name, address, etc) as well as Licensee ID Number, personal identifier and password. It's a good idea to print this screen and keep a copy in your files for safekeeping (primarily in case you forget your password).

That's it! You're done! You're now registered in the Universal Licensing System. ULS registration is required before amateurs can transact business (ie, file applications, renewals, vanity call sign requests, address changes, etc) with the FCC.

Editor's note: You can order the Netscape 4.7 CD from Netscape at a cost of \$5 each, or 5 for \$10, from their web site. Any WASH member who needs a copy is welcome to either borrow one of my extra CD's, or buy it at my cost (\$2 each) while they last. Drop me a note if you need one.



Registering yourself in the FCC's Universal Licensing System is REQUIRED before any amateur, and eventually ALL FCC license holders, can conduct ANY business with the FCC today — license renewal, filing applications, change of address, vanity calls — anything.

"In a country of free speech,
why are there phone bills?"

"Renegade" WB6PSY

My 1st DXpedition to Vietnam

Mike Paskeuric NØODK/3W6DK MPask14791@aol.com

Hello from Mike NØODK / 3W6DK in Minnesota, back from Vietnam. I saw some reflectors talking about my Vietnam DXpedition so I thought I would add a couple comments.

I'd just upgraded a couple days before the trip to the General class ham ticket. I will be upgrading further as time goes by.

This was my first of around three DXpeditions to Vietnam I am planning and the first time out of the USA. Maybe even more to Vietnam after. I operated in several frequency sections and not just the Advanced section. I found it was very hard to operate in the General section due to people claiming frequencies, being rude, and being in a different frequency Region in the world.



In Ho Chi Minh City, some of the frequencies have other noises and "birdies" and other modes that the US doesn't have. The biggest problem for me was on the 40 meter band; no one was answering me due to Shortwave Broadcast stations. The other problems on 20 was with some of the US stations. Some were rude and would jump over everyone during a QSO. I tried getting the whole call from stations but there are too many stations calling, even on split, that a person can only hear one letter out of many stations. Also, propagation was not the best over there. A very noisy city to operate from.

Some of my favorite things was answering CQs and listening to the happy voices on the other side, after I told them I am not a pirate. I also liked working the JAs, the best for they are very efficient and nice operators, very polite in a pile up. I worked the JAs faster than the US stations due to it and it was a shame that the US stations would not listen to me. I got to do two SSTV contacts and I believe two 10-X # contacts with two stations on ten meters, the first 3W6 10-X exchange I was told. I loved hearing "thanks for the new one" with a happy voice.

My biggest disappointment was losing my voice several times and forgetting the CW key at home. Also, the headset problems here in MN and in Vietnam. I tried getting help on this problem before with little success. Very disappointing.

I will 100% QSL out for those who send to me, but it will take a while to get the cards out. Please be patient with me, and I thank you for the time and contacts. The number one thing is I HAD FUN and tried to make it fun for the hams that got through to me.

Remember amateur radio is to be fun, not a big contest!

Recent Silent Keys



Chod Harris WB2CHO/VP2ML, 8 December 1999.
H. David Leiser K3NPW, 26 December 1999.
Margaret Marie Cox (W3HBC's Mom), 1 January 2000

Upcoming Amateur Radio Classes

The North Hills Amateur Radio Club offers amateur radio classes for the Novice and Technician licenses as well as 5 wpm Morse code classes. All classes are free. Students' only expenses are instructional materials.



The first class session is 6:30 p.m. on Tuesday, January 11, 2000 at the Pine-Richland High School, 4300 Warrendale Road (Red Belt), between Pierce Mill Road & Babcock Boulevard., Pine Township (Gibsonia), PA. Classes will run Tuesday evenings for 15 weeks.

Recommended textbook and code tapes for the classes are those from the American Radio Relay League (ARRL), "Now You're Talking" and can be found at local Radio Shack stores. Additional information can be found on the North Hills Amateur Radio Club's web page at <http://www.nharc.pgh.pa.us>, or the American Radio Relay League's web page at: <http://www.arrl.org>. VE testing for amateur radio licenses will be scheduled for class participants.

Advance registration is strongly recommended, to help with planning, but walk-ins are truly welcome.

For more information or to register, contact: Bob Ferrey, Jr. N3DOK (412) 367-2393 or by e-mail at: n3dok@nharc.pgh.pa.us

Free Tech Plus amateur radio classes will begin 7:00 PM, Friday, 28 Jan 2000. For more information, go to my web site, <http://www.qsl.net/kd3qq/new.htm>, click on Tech Plus Classes.

— Leonard Budd, KD3QQ

E-Mail: KD3QQ@aol.com Telephone: (412) 708-4903



The Two Rivers Amateur Radio Club will be conducting Tech Plus Amateur Radio classes starting Wednesday, February 2nd, 2000. Classes will continue for 13 weeks ending on April 26th, 2000 with a VE license session.

The time of class is 7:00 P.M. till 9:00 P.M. Classes will be held at the McKeesport High School South Hall on Eden Park Blvd. in McKeesport.

For more information, please call me at 412-664-1683, e-mail me at n3xbw@arrl.net, or w3oc@qsl.net, or visit our web page at <http://www.qsl.net/w3oc>. — Jay Petrulic N3XBW

"I have made a nice screensaver from my QSL cards of Marconi Memorial Stations. I have put the install file on my webpage: <http://www.swl.net/oe1002419>. (follow the links to the file) The installation file only installs a scr file in the windows directory, no dll's or other waste. If you want to remove the screensaver from your computer, just delete the file MarconiQSL.scr from the windows directory, that's all. If the download shouldn't work for you, I can also send the file via email, but its easier to download it from the page. I wish you all a Happy New Year 2000 !!"

— 73 de Kurt. OE 1002419 (Vienna Austria)
email: kurt.brandstetter@teleweb.at

Bet You Thought "Crocodile" Dundee was Just a Movie. . .

Courtesy of Paul Lusardi NØVLR

From the June 15, 1999 *Defense Science and Technology Organization Lecture Series*, Melbourne, Australia, and staff reports:

The reuse of some object-oriented code has caused tactical headaches for Australia's armed forces. As virtual reality simulators assume larger roles in helicopter combat training, programmers have gone to great lengths to increase the realism of their scenarios, including detailed landscapes and — in the case of the Northern Territory's Operation Phoenix — herds of kangaroos (since disturbed animals might well give away a helicopter's position).



The head of the Defense Science & Technology Organization's Land Operations/Simulation division reportedly instructed developers to model the local marsupials' movements and reactions to helicopters. Being efficient programmers, they just re-appropriated some code originally used to model infantry detachment reactions under the same stimuli, changed the mapped icon from a soldier to a kangaroo, and increased the figures' speed of movement.



Eager to demonstrate their flying skills for some visiting American pilots, the hotshot Aussies "buzzed" the virtual kangaroos in low flight during a simulation. The kangaroos scattered, as predicted, and the visiting Americans nodded appreciatively... then did a double-take as the kangaroos

reappeared from behind a hill and launched a barrage of Stinger missiles at the hapless helicopter. (Apparently the programmers had forgotten to remove that part of the infantry coding).

The lessons learned?

- Objects are defined with certain attributes, and any new object defined in terms of an old one inherits all the attributes.
- The embarrassed programmers had learned to be careful when reusing object-oriented code.
- The Yanks left with a newfound respect for Australian wildlife.
- And simulator supervisors report that pilots from that point onward have strictly avoided kangaroos, just as they were meant to.

DX News Briefs

"I operated as **9H3J** in the last CQ WW CW. Please QSL via JF1SQC or via the JA bureau. Do NOT send cards to the 9H bureau. Thanks!" — JF1SQC/9H3J



QSL **ZC4AKR** via 5B4YX — G0WMMW
QSL **S79FAG** via DL7AFS — N7WO
QSL **CY9CWI** via VE2CWI — OE1002419

OK2ZW is now active as **9G5ZW**. He plans to be in Ghana for the next three years. QSL to OM3LZ; every direct QSL card received will be answered, starting after January 1st — OPDX

There is some confusion regarding the recent **9G5AA** operation. The call was reissued! QSL the 1999 contacts only via GM4FDM. Only the 1994 operation should be QSL'd via G3SXW. — OPDX

Some More Y2K Callsigns:

VR2K: Hong Kong Amateur Radio DX Association — QSL to VR2XRW — VR2XMT
VC2K: QSL to VE2PJ — VE2PJ
YE2K: QSL to YB2PBX — W3UR/The Daily DX
ER2000A: QSL to ER1DA — OPDX
N5T: QSL to N5VT — N5VT
TO2000 (FG): QSL to ON4CLE — ON4CLE

VP2ML became a SK December 8th due to complications following a severe heart attack. Memorial services were held December 10th. The family has asked that in lieu of flowers, donations should be made in Chod's memory to either the American Heart Association or the Northern California DX Foundation — W9KNI

Mario I2MQP is QSL manager for 1998 & 1999 QSO's by **P4ØB**, **P4ØHQ**, **TG9IHI** and **EP3HR**. He is also manages **OY2H**, 1999 QSO's only. "Fast reply either buro or direct!" — I2MQP.

ZS6AN, who was **ZS9S** when he was stationed at Walvis Bay, is about to reorder QSL cards. Use the QRZ address, other printed addresses are not accurate. Expect a 2 month or so turnaround; he is in the South African military & is not home often. — K2EWB

SP5AUC, currently QRV as **3W7CW** & **XU7AAS**, will be home for a short holiday in January before returning. He plans to spend more time in contests with his new tri-bander. He plans to reply to all QSL's on his next trip home this summer. — SP5EWY

ARAC's (**9Q**) website has just been upgraded with a 1948 – to – present call book and new pictures. You can find it at <http://www.multimania.com/aracongo/index.htm> — F6BLO (5NØT/9Q)

PA3EWP & PA5ET will be active from the island Kuramanthi, one of the atolls of the Maldives (**8Q**). They will be QRC January 12th thru 18th with 2 HF stations operating 80-10 meter on CW, SSB & RTTY. The requested call signs are 8Q7ET and 8Q7WP. — PA5ET

HVØA is in honor of the Jubilee year. QSL via IKØFVC — IKØFVC

VKØLD went QRT 12/31/1999. **VKØMM** started 01/01/2000. If you're in the 'LD log, working 'MM isn't a dupe! — VKØLD/VKØMM

Thanks to the KH2D DX Reflector, 425 DX News, OPDX News, & ARRL DX Bulletins for our **DX News** information. Thanks also to W3UR/The Daily DX for confirmations & additional information.

*Season's Greetings to all,
whether friend or foe.*



*ANARE station, Macquarie Island
as viewed from VKØLD operating location*



Get Your Press Release Read: FCC Enforcement News Deliver the Message!

Jeff Reinhardt AA6JR
Public Information Coordinator
ARRL Santa Barbara Section



You must think of this another way: You want to cut through the clutter. You want to get your message noticed. You need to do something to make your message stand out. It's not cheapening yourself (unless you do something personally demeaning) it's massaging the media. Different is better in most instances.

I was an editor; everyday the mail service would deliver a stack of releases. Most of them ended up in the round file. The ones that didn't had some solid news or entertainment value. The occasional piece that ended up as feature material usually had some type of "hook"; be it a witty headline, a strong visual element, an unusual event, etc. I don't know if a candy bar would win you a feature story but it would likely get the release noticed. (maybe by the hungry mail delivery person!)

You can send a news release on a car race but it has more impact if you send a little checkered flag along with it. It's not debasing your values...it's applying a little creativity to your efforts. Isn't the object of your effort to get noticed?

Here's a brainstorm: If I were going all out to be creative on a ham news release, (like inviting a reporter to Field Day) I would package it in an envelope with a drawing of a tower. At the top of the tower I would have an actual blinking LED. Naturally, I'd hand deliver it to the media outlet, 'cuz every dweeb in the Postal Service would think it was a bomb. I guarantee you the envelope and it's contents would get noticed. And the editor would likely have some respect for the ability of your club to create such an object.

In any event, the effort to get noticed is not new. Media stunts are nearly as old as the media itself. From having Evel Knevil ride his bike into the lobby to promote a local event to a pair of Playboy bunnies in full costume coming into the office to announce the building of a new Playboy Club (am I dating myself or what?) good media promotion cuts through the clutter to deliver a message.

Let me add one more thought to the Press Release posting...most PR firms and departments today term their releases as NEWS releases, not PRESS releases. It crosses media lines easier that way. A nuance, yes, but one worth noting.

P.S. If you don't think LED's attract attention, ask Phil Anderson of Kantronics. Two years ago at Dayton my firm produced stick-on badges with a TNC that had an actual blinking LED. His booth traffic was unbelievable!

"The Commission may, upon learning that an application has been granted as a result of an inadvertent, ministerial processing error, set aside the erroneous grant." With these words on December 15th, 1999, FCC Special Counsel for Amateur Radio Riley Hollingsworth, K4ZDH, re-assigned the N3SH club call sign back to the Wireless Association of South Hills, Inc.

In a letter to Mr. Ronald Lentz N3WX, Hollingsworth pointed out that Lentz had failed to respond to a previous FCC letter on March 3, 1999 regarding the original complaint of WASH (filed during the short time WASH was known as the "N3SH Amateur Radio Club") and that the call was re-assigned back to WASH shortly thereafter. Lentz then "again applied for N3SH in the name of the South Hills Amateur Radio Club, Inc." which was granted on July 15, 1999. This application should not have been granted and probably slipped through during the start-up at that time of the Universal Licensing System for the Amateur Service.

Lentz was also advised in the letter that "any future attempt to obtain this call sign, N3SH, without a full disclosure and justification of the circumstances on your application will be considered an abuse of the Commission's processes and will reflect adversely on your qualifications to retain your Amateur license N3WX."

Lentz was the original trustee of the WASH (then known as the South Hills ARC) club call. He was replaced by current trustee Steve Lane W3SRL by unanimous vote in May 1998, as he had not paid his 1998 dues and was no longer a member of good standing in the organization, thus ineligible to continue as club trustee. He has never returned calls or letters inquiring as to why he left the organization.

Beam Power Tube Substitution

Dexter Francis NØYLJ CWest Tube Sales 801-363-TUBE

Tube substitution using just a substitution book won't reveal the full range of possibilities as the compilers were quite strict about pin for pin compatibility. This often eliminates some similar types from consideration. The 6JB6 is a good example of this. It is one of several beam power tubes that were rated at 17.5 watts plate dissipation or higher. It had a 9QL base, which was also used on the 6JE6, 6JF6, 6JU6, 6KM6, 6LQ6, 6LZ6, 6ME6 and another dozen 12 to 36 volt filament types.

However, note that if Grid 3 (the suppressor) is tied to the cathode externally by the wiring, as was often the case in HDA amplifiers and RF amplifiers, the 6GJ5 could also be a possibility, since it has a 9QK base and is also a 17.5 watt sweep tube. (see table below)

Pin Nr.	1	2	3	4	5	6	7	8	9	Tube
9QL Base	G2	G1	K	H	H	G1	G2	G3	IC	6JB6
9QK Base	G2	G1	K/G3	H	H	G1	G2	IC	IC	6GJ5

You would have to check on the wiring to pins 8 & 9 of the socket. Pins 3 & 8 may be tied together in the Drake. You would have to watch those ICs (for Internally Connected) on pins 8 & 9. But consider that 6GJ5's are half the price of 6JB6's. And over the years, I've come to feel that Sylvania's materials & process control were among the best in the industry.

Trivia Question:
How many Field Day operations this year are going to be using new Generators bought at a Garage Sale or Flea Market Post Y2K Hysteria?

Now in our Fifth BIG year!!

WASHfest 2000

The South Hills Hamfest



An Amateur Radio and Computer Show Sponsored by the Wireless Association of South Hills, Inc.



Where: **Castle Shannon VFD Memorial Hall**
Rt. 88 (Library Road at Grove Road) in Castle Shannon, PA
Just 10 minutes from Downtown Pittsburgh

When: **Sunday, February 20, 2000 (3rd Sunday in February)**
Rain Snow Sleet or Shine!
Doors open at 6:00 AM for vendor set-up ONLY
Open to the General Public 8:00 AM until 3:00 PM

Talk-In: **146.955 (-) N3RNX Repeater starting at 5:00 AM**
Hamfest Communications from Special Event Station W2K

Main Prizes: 1st Prize: Yaesu VX-5R Triband HT 2nd Prize: Icom IC-2100 Mobile
3rd Prize: MFJ 9420X 20m QRP Outfit 4th Prize: MAHA Universal Battery Charger

Acres of FREE parking, and everything is on one handicapped-accessible level.

General Admission is still only a \$4.00 donation per person.

Harmonics under 10 are admitted FREE with adult admission. Tables are \$15.00 each with electricity (limited number) and \$10.00 without power. Main Prize tickets are \$2 each, 3 for \$5
All display areas are located INSIDE CSVFD's spacious banquet facility.

For further information and/or reservations:

Steve Lane W3SRL, Hamfest Co-Chairman w3srl@adelphia.net 412-341-1043

Bill Hill W3WH, Hamfest Co-Chairman billhill@nb.net 724-746-5944 (day) 724-746-1776 (night)

WASHfest 2000, P.O. Box 79211 Pittsburgh, PA 15216

Also, check out the WASH Club website: <http://www.hky.com/~sanfordb/index.htm>

WASHfest 2000/South Hills Hamfest Reservation Form – PLEASE PRINT OR TYPE LEGIBLY!

_____ Tables WITH Electricity @ \$15.00 ea. = \$_____ Name: _____

_____ Tables W/O Electricity @ \$10.00 ea. = \$_____ Address: _____

_____ Prize Tickets at \$2.00 ea. Or 3/ 5.00 = \$_____ City: _____ State: _____ Zip: _____

_____ Total Amount Enclosed = \$_____ Phone: (_____) _____ - _____

Email: _____

Please return completed reservation form to Wireless Association of South Hills, Inc., Hamfest Headquarters, P.O. Box 79211 Pittsburgh, PA 15216

Make all checks payable to WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Absolutely NO REFUNDS!



WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Membership Application/Renewal for 2000



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 **2nd Qtr** **3rd Qtr** **4th Qtr**
Jan-Mar **Apr-Jun** **Jul-Sept** **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 (F1 or F2 or A1 dues x 20% x No. of household family members): \$ _____

Name(s): _____

Name: _____ Call Sign: _____

Address: _____ License Class: _____

City, State: _____ Expires On: _____

Home Phone: _____ Work Phone: _____

Email Address: _____ Birthday: _____

ARRL Member? Yes No Family ARRL Member? Yes No

Signature: _____ Date: _____

Amount Enclosed: \$ _____

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
1120 McKnight Drive
Bethel Park, PA 15102-2456



WASHfest 2000 Group Order Form for "Ham Threads" Embroidered Shirts, Jackets and Hats



Quantity	Item/Description	Size	Color	Unit Cost	Net Cost

Available	Cost (S M L XL)	Cost (2X 3X 4X)
Golf Shirts	\$22.95	\$24.95
Rugby Shirts	\$22.95	\$24.95
Light Jackets	\$42.95	\$45.95
Lined Jackets	\$42.95	\$45.95
Hats	\$10.95	\$10.95

Additional Costs:
Add Call above Club Logo: None
Add Name & Call opposite Club Logo: \$8
Prices, availability & available colors subject to change without notice.
Use additional sheet(s) if necessary

Total Enclosed _____

Bring this form with payment attached to the December or January meeting. Make checks payable to "Ham Threads" If you can't make the meeting, contact WN3VAW, W3SRL or N3RDV to make arrangements. We'd like to place this order by January 15th to arrive in time for WASHfest 2000. Please allow 3 - 4 weeks for delivery.



QSL the Grid 24 & thanks for the Groundwave
 Contact OM...See you tomorrow morning at
 WASHfest 2000! QRZ the YL? ...



Inside This Issue:

- Restructuring Details!
- Classes!
- Y2K Wrapup!
- PA QSO Raw Scores!
- ULS!
- DX!
- PR!
- W2K!
- N3SH!
- WASHFest 2000!

And that's just for starters
 ... naturally!

Reminder:

- Next WASH VE Tests Thursday January 20th
- Q&A Sessions for all license classes start on Thursday, January 27th
- WASHfest 2000 & W2K, Sunday, February 20th



Prototypes of the W2K QSL Card
 Designed by Kevin de Rose N3KFD

