

# Northwest Indiana DX CLUB

Volume 8, Issue 9

September 2020

## President's Corner

Hello everyone,

Glad I don't have to wear a face mask when talking to other hams on the radio.

HIHIHI

I sure hope you are all doing fine.

Work some DX!

Please be safe and stay well.

73

John W3ML

Good DXina!

## "Working the World from the Black Hole"

NWI DX Club Website

<http://nwidxclub.weebly.com/>



Don't forget Steve is our new QSL Card Checker.

DXCC Card Checking is available by appointment and may be available at meetings. E-Mail [kd9hl@arrl.net](mailto:kd9hl@arrl.net) for an appointment or to make other arrangements.

## INSIDE THIS ISSUE

- 1 President Speaks
- 2- Member News/DX News

**Reminder, the NWIDX Club has a club call W9NWI.**

The call is available to members for use during contests, special events, Field Day, etc. To schedule dates for its use, contact the trustee, Steve Mollman – KD9HL. [kd9hl@arri.net](mailto:kd9hl@arri.net)

QSL cards are available.

## **Notice:**

**Articles in the Northwest Indiana DX Club Newsletter (except for those separately copyrighted) may be reprinted, provided proper credit is given.**

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# **Corrections & Amplifications**

**Handy Hint – Marking connector Pins – August 2020 Newsletter:** John Gianotti-W9WY writes: Nice article on marking connectors in the NWIDX newsletter. A short addition, if one needs to mark a black connector and a label machine is not handy, use a SILVER Sharpie (and yes they come in fine point). Keep up the good work.

A couple of silver Sharpie sources:

<https://www.amazon.com/Sharpie-39108PP-Metallic-Permanent-Blister/dp/B00009RAX4>

[https://www.walgreens.com/store/c/sharpie-silver-fine-point-permanent-markers/ID=prod397935-product?recrawl&ext=gooKBM\\_PLA\\_-](https://www.walgreens.com/store/c/sharpie-silver-fine-point-permanent-markers/ID=prod397935-product?recrawl&ext=gooKBM_PLA_-)

[\\_Household \(2019 Update\) Set1&pla&adtype=pla&kpId=sku397936&sst=k\\_Cj0KCQjwyJn5BRDrARIsADZ9ykFCczzPYQRoM2cPK6UbdkTu2yQZSZOh0eYR54XxRklxYJ6nc-rRK-](https://www.walgreens.com/store/c/sharpie-silver-fine-point-permanent-markers/ID=prod397935-product?recrawl&ext=gooKBM_PLA_-Household_(2019_Update)_Set1&pla&adtype=pla&kpId=sku397936&sst=k_Cj0KCQjwyJn5BRDrARIsADZ9ykFCczzPYQRoM2cPK6UbdkTu2yQZSZOh0eYR54XxRklxYJ6nc-rRK-)

[EaApDPEALw\\_wcB\\_k\\_&gclid=Cj0KCQjwyJn5BRDrARIsADZ9ykFCczzPYQRoM2cPK6UbdkTu2yQZSZOh0eYR54XxRklxYJ6nc-rRK-EaApDPEALw\\_wcB](https://www.walgreens.com/store/c/sharpie-silver-fine-point-permanent-markers/ID=prod397935-product?recrawl&ext=gooKBM_PLA_-Household_(2019_Update)_Set1&pla&adtype=pla&kpId=sku397936&sst=k_Cj0KCQjwyJn5BRDrARIsADZ9ykFCczzPYQRoM2cPK6UbdkTu2yQZSZOh0eYR54XxRklxYJ6nc-rRK-EaApDPEALw_wcB_k_&gclid=Cj0KCQjwyJn5BRDrARIsADZ9ykFCczzPYQRoM2cPK6UbdkTu2yQZSZOh0eYR54XxRklxYJ6nc-rRK-EaApDPEALw_wcB)

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**"Working the World from the Black Hole"**

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# ***Handy Hint***

**By Steve Mollman-KD9HL**

## ***Lightning Strikes***

***(Be sure to disconnect the comm port)***

During a conversation with a service tech at a major transceiver manufacturer, he mentioned that from August through October, during the lightning season, they receive a lot of lightning damaged equipment. Invariably the customer says “I disconnected everything EXCEPT ...”, then they list one item-the COMM PORT.

It is most likely the lightning strike came in through the COMM PORT connected to the COMPUTER (via DSL or Cable Modem). Those lines are long and run for miles, so a direct hit is not necessary to do damage.

Besides the most likely Comm Port and the obvious antenna connection, he has seen lightning come in other things connected to the equipment, such as the DC power cord, ground, Paddle/Key, Key-Out to Amp etc, but the comm port was the most frequent culprit.

When lightning threatens, disconnect all power, ground, coax, rotator control cables, etc. Anything that goes to the outside world

**◀73's and Good DX ▶**

***Do you have a Handy Hint that you would like to share? Contact Steve Mollman at KD9HL@ARRL.net***

If you like tracking hurricanes, then this weather site is a good one to check out. Mike's Weather Page has a lot of information for you to check out.

<https://tinyurl.com/y32hbj9>

An article on **HORIZONTAL LOOP ANTENNA CONSTRUCTION**

<http://www.k5rcd.org/hor%20loop%20instruct.htm>

How to Remotely Disconnect Your Antenna(s) - A Solid Solution!

<https://tinyurl.com/y54syd3q>

# *A Year as a DXCC Card Checker*

**By Steve Mollman-KD9HL**

When Dr. Rich Lochner-K9QA passed away suddenly in March of 2019, the NWIDXC was left without a DXCC Card Checker. After some discussion with the club President John Poindexter-W3ML, I took on the responsibility.

To become a DXCC Card Checker the nominee must go through a vetting and qualification process with the ARRL. First off, the prospective card checker must be nominated by a DX club. As club president, W3ML did the honors submitting my name to Kermit Carlson-W9XA, ARRL Central Division Director. Kermit wrote a nice letter to the ARRL seconding my nomination. After some back and forth along with an exam on DXCC rules and procedures I was approved and named a “DXCC Card Checker-Central Division”. The ARRL published my contact information. Marcia Lochner, K9QA’s XYL, kindly donated his “Green Pen” (Note 1) along with the old files and I was open for business. A perk was being allowed to buy and wear a special card checker name tag.



The ARRL’s Card Checker Badge

After a year on the job I have checked over 300 cards for seven applicants. The number of cards submitted at one time varied from 1 to 132. Of the 300 plus cards checked four had to be rejected (1.25%). Talking to other card checkers it appears that my experience and rate of activity is typical.

The majority of DXCC applications are now via Logbook of the World (LOTW) because most stations find that LOTW is a faster and cheaper than traditional cards as a way to confirm a contact. (Note 2) I have done card checking in my home, at club meetings and at the Fort Wayne Hamfest.

The overwhelming percentage of applications I have seen are without a problem. That being the case listed are some of the “errors” that I have seen:

1. Failure to provide a SASE to send the application to the ARRL. (postage was gratuitously provided by the card checker)
2. Failure to provide SASE to return the cards to the applicant.
3. Failure to sign the application. (I had the applicant email me the signed form which resolved the problem)
4. Failure to provide the ARRL’s fees either by check, money order or with credit card information on the application. The ARRL won’t process an application without the fees being paid.
5. The contact mode was different on the card vs the application. (The card said Phone-the application said CW). This is important because of the many mode sensitive awards available.

6. The DX card confirmed a different station's call letters, not the applicant's.
7. The DX card failed to name any station's call letters.
8. Cards not sorted in the order they are listed on the application. (This is a good way to upset the card checker. He can either reject the entire application which is known as the "nuclear option" or spend time sorting the cards. Neither solution is a happy one).



**DXCC Record Sheet**

Call Sign: XXXXXXXXXX Page 1 of 1

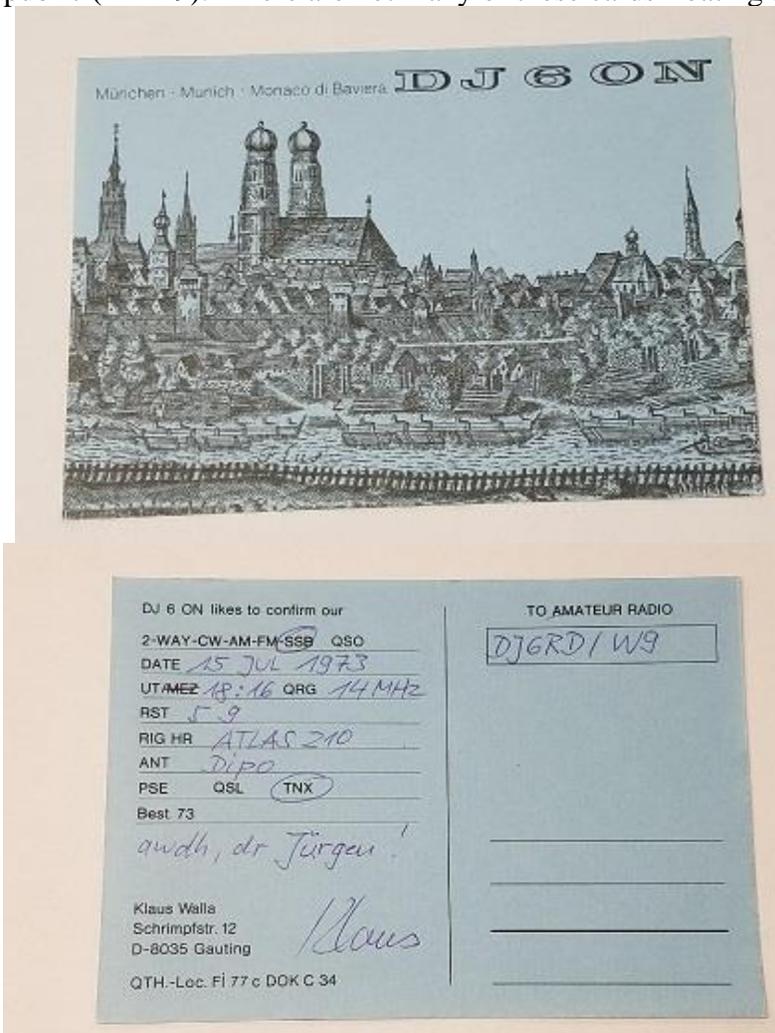
Note: Cards may be submitted directly to ARRL or checked by a DXCC Card Checker. Cards must be placed in the order shown below.

Number	Call Sign	QSO Date	Band	Mode	Entity
✓1	5B4FL	2006-07-12	6	CW	CYPRUS
✓2	7X0MT	2002-04-08	6	CW	ALGERIA
✓3	CT3FT	2005-07-08	6	CW	MADEIRA ISLANDS
✓4	EA9IB	2006-06-16	6	PHONE	CEUTA & MELILLA
✓5	ES1CW	2006-07-11	6	CW	ESTONIA
✓6	FJ5DX	2005-08-26	6	PHONE	SAINT MARTIN
✓7	HP1AVS	2007-05-13	6	PHONE	PANAMA
✓8	5T5SN	2005-07-09	6	CW	MAURITANIA
✓9	PJ7TM	2006-06-04	6	PHONE	SINT MAARTEN, SABA, SAINT EUSTATIUS (DELETED)
✓10	8R1DB	2009-06-21	6	PHONE	GUYANA
✓11	HH4/W3CMP	2006-06-24	6	PHONE	HAITI
✓12	KG4WW	2005-05-18	6	PHONE	GUANTANAMO BAY
✓13	V26HS	2006-06-04	6	PHONE	ANTIGUA & BARBUDA
✓14	TI8CBT	2005-07-04	6	PHONE	COSTA RICA
✓15	V31IV	2005-07-04	6	CW	BELIZE
✓16	5J0BV	2009-06-23	6	CW	SAN ANDRES ISLAND
✓17	VP2V/W7XU	2006-06-28	6	PHONE	BRITISH VIRGIN ISLANDS
✓18	T05E	2008-07-03	6	PHONE	SAINT BARTHELEMY
✓19	<del>CY0AA</del>	<del>2005-08-08</del>	<del>6</del>	<del>CW</del>	<del>SABLE ISLAND</del>
✓20	OE5KE	2006-07-12	6	CW	AUSTRIA
✓21	OM3ID	2006-06-19	6	CW	SLOVAK REPUBLIC
✓22	P43JB	2006-06-04	6	CW	ARUBA
✓23	T99C	2006-07-12	6	CW	BOSNIA-HERZEGOVINA
✓24	UA4PK	2006-06-24	6	CW	EUROPEAN RUSSIA
✓25	UY5ON	2006-06-09	6	CW	UKRAINE
✓26	YN4SU	2005-07-10	6	PHONE	NICARAGUA
✓27	<del>YO7NW</del>	<del>2009-06-16</del>	<del>6</del>	<del>CW</del>	<del>ROMANIA</del>
✓28	ZB3B	2005-07-08	6	PHONE	GIBRALTAR

**An actual DXCC Application Record Sheet showing two "green lined" rejected cards. (The CY0AA card showed "Phone" –the record showed "CW". The YO7NW card was rejected because it failed to show the applicant's call )**

I have been asked what I do when I run across a card that "looks funny". An extreme hypothetical example would be a contact between a station in Northwest Indiana and a station in Central Africa supposedly made at 17:00 UTC (12 noon CDT) in July on 80 or 160 meters or even 40 meters. Common sense says that such a contact is highly unlikely because of the lack of low band propagation being it would be daylight at both ends and during the summer. My response would be to highlight the contact on the application and pass a note to the ARRL DX Desk noting my concerns. The ARRL would make the decision to accept or not accept.

Most of the cards I have seen are run of the mill with an occasional semi-rare entity thrown in. Probably the most unusual was from Jürgen Nittner-N9RD for a contact in 1973 with Germany (DA). This was a deleted entity because after 1973 Germany was split into the Federal Republic of Germany (DA-DL) and the German Democratic Republic (Y2-Y9). There are not many of these cards floating around these days.



**A 1973 QSL Card from Germany (DA)**

**(card courtesy of N9RD)**

I recently had an email from a DX'er living in the Indianapolis area who didn't trust the US Mail with his cards and wanted to bring them to my house some evening. I was willing to accept his cards but had to question the practicality of his request. It turned out that he misread my address and thought it said "Westfield, IN", a suburb of Indianapolis. I live near Westville, IN which is about 140 plus miles from his location. He decided to find a closer card checker.

I have been asked whether I check my own cards. The answer is NO! Although I can find nothing in the card checker's instructions to prevent it, I consider doing that to be unethical. I use Carl Luetzelschwab-K9LA to check my cards.

COVID-19 has forced card checkers to change their procedures. For example, I have suspended visits to my home for card checking. The old proverb "*Discretion is the better part of valor*", is the way of life now,

meaning it is sometimes better to avoid a dangerous situation rather than confront it. Most card checkers will accept cards via US Mail or UPS/FedEx. Some won't touch the packages for up to four days. I generally wait 24 hours. The ARRL wants cards processed and the applications sent to them within two working days. I have been able to get mine out the same day after opening the package. (Note 3) I view my job as a card checker as an assist to the applicant in achieving his goals. The card checker should do as much as he can within the ARRL DXCC rules to help the applicant attain his goal and not be a barrier. Basically, that means being a convenient way to promptly check the cards and application for validity and completeness. All final decisions are made by the ARRL DX Desk.

I strongly advise, before making an application for card checking, that the ARRL's instructions be read AND followed. Another help is the article titled "Card Checking Tips" in the NWIDXC Newsletter of September 2019. (Note 4)

Use the preferred Online Electronic DXCC Application (Note 5) for your paper cards. It will be easier and cheaper for you. It will also go a lot faster at the ARRL when they get your paperwork since you already entered your card data in the computer system. (Note 6) With the online application you can enter the cards in any order but make sure you send them to the card checker in the order you entered them. On cards with multiple QSOs enter the QSOs together to facilitate checking. The reason you don't have to sort by band then mode is because there is minimal data entry work at HQ when they get your field checked application.

Note 1- The ARRL requires the use of a Green Pen to be used for marking a rejected card on the application. Because of its negative use, the green pen has become infamous.

Note 2-"Where have all the Flowers gone? Or where have all the QSL Cards gone?"-NWIDXC Newsletter-July 2020. <http://nwidxclub.weebly.com/newsletters>. According to the ARRL 85% of all DXCC applications are via LOTW.

Note 3-Because of COVID-19 mail problems, the ARRL, rather than requiring applications to be mailed, recently began allowing card checkers to email DXCC applications to the DX Desk. This means that the ARRL will have an application as soon as the card checkers sends it. No more delay in the mail.

Note 4-<http://nwidxclub.weebly.com/newsletters>

Note 5-<https://p1k.arrl.org/onlinedxcc/>

Note 6-My experience is that it takes six to eight weeks for the ARRL to process a conventional application. The "On-Line Applications" are usually processed within three working days after the ARRL receives it.

*73's, Good DX and go work a new one!*

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## **MEASURING INDUCTANCE AND CAPACITANCE**

**with**

**"THE DE-5000 LCR METER"**

**By**

**Jerry Hess, W9KTP**

For most of my Ham career, I have not had the luxury of high-end test equipment. As a result, I have had to spend extra time with the old "cut and try" method to get circuits to work

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properly. It was particularly frustrating when working with inductances. Recently I came across the "DE-5000 LCR Meter" which has a wide range of features which solved that and many other problems at a very reasonable price of \$128 (1). Among its many features it can measure series and parallel inductance, series and parallel capacitance, series and parallel resistance in addition to dissipation factor (D), quality factor (Q), and phase angle. In order to test its capability, I ran a test against my MFJ 259C bridge and a Mega329 ESR tester (2).



For inductance test, I chose a chunk of coil stock, two junk box RF chokes, an unknown slug tuned coil, a T68-2 toroid with 38 turns and a T68-6 toroid with 33 turns.



The results are as follows.

ITEM	CALC VALUE	ESR	MFJ	DE-5000
Coil Stock	13.5 uH	N/A	13.26 uH	13.6 uH
RF Choke 1	N/A	.85 mH	N/A	.89 mH
RF Choke 2	N/A	6.67 mH	N/A	6.9 mH
Slug Tuned	Resonant 745-1896 KHz *	N/A	N/A	150-950 uH
T68-2	8.23 uH	N/A	9.4 uH	9.5 uH
T68-6	5.17 uH	N/A	6.8 uH	6.9 uH

\* Calculation of resonance verified with MFJ Bridge with 47 pF disc capacitor

The ESR unit did not fare well with components that are typical radio frequencies parts and the MFJ unit did not measure higher ranges of inductance. Great results from the DE-5000. Notice that the calculated inductance for the toroids is lower than measured. I often have to trim my toroids. Now that I am confident in toroid measured values, I can trim my coils without trial and error.

To test the capacitance values, I chose the following range and types of capacitors.

METER	.018 uf Mylar	250 pF Mica	5 pF Disc	0.1 uF Disc
MFJ	0.016	N/A	N/A	N/A
ESR	0.017	269	N/A	0.09
DE-5000	0.017	271	5.9	0.09

Again the DE-5000 performed very well. It was a great help sorting a 'grab bag' of mylars I recently purchased from Jameco.

A pet peeve of mine is why are there different methods for marking capacitors? Wouldn't it take just as much ink to mark a capacitor with its actual value instead of '103' for a .01 uF or 183k for .018 uF? Yeesch! Oh, and the old beauty mica on the right? I had to go back a few decades of ARRL Handbooks to decode that one. By the way, how about the country of origin? Ha!



Next time you are looking for a nice meter you might want to consider the DE-5000. I'm very pleased with mine.

73's,

Jerry

(1) <https://www.amazon.com/5000-Handheld-LCR-Meter-accessories/dp/B00S298KJO>

(2) Check "Google" for the Mega328 Tester for numerous sources and prices.

# ARRL DX LISTING FOR SEPTEMBER 2020

GEORGIA, 4L. Peter, HB9DVG is QRV as 4L/G4ENL while working at a hydropower plant here. Activity is in his spare time on the HF bands using CW, SSB and FT8. His length of stay is unknown. QSL direct to home call.

MALTA, 9H. Reiner, DL2AAZ will be QRV with special call 9H3SAT from Gozo, IOTA EU-023, during the month of September. Activity will be on the HF bands and 6 meters, and especially on Satellite QO-100, using CW and SSB from grid square locator JM76cb. QSL to home call.

MALAYSIA, 9M. To celebrate the 63rd anniversary of Malaysia's independence, a number of special event stations in both East and West Malaysia will be QRV with the 9M63 prefix on August 30 and 31. QSL via operators' instructions.

CHILE, CE. Members of the Radio Club Traiguen are QRV with special event calls CB6T, CB6Q, CB6P and CB6TEB to commemorate the arrival 131 years ago of the first railroad in Traiguen. QSL direct to CE6TRA.

SPAIN, EA. Special event stations EG1SDC to EG9SDC and EH1SDC to EH9SDC will be QRV from September 1 to 13 to celebrate the feast day of Asturias and its patron saint, Santina de Covadonga. QSL all calls via EA1AUM.

REUNION ISLAND, FR. Chris, F8FPY is QRV as FR8TG from Le Guillaume. Activity is on various HF and VHF bands using mostly CW with some SSB and FT8. QSL direct.

ENGLAND, G. Special event station GB5ST will be QRV on September 1 to celebrate the TV series Star Trek and its various spin-offs. QSL via bureau. In addition, members of the Royal Air Force Amateur Radio Society will be QRV with special call GB800BOB from September 1 to 28 to commemorate the Battle of Britain. QSL via 2E0NDZ.

BULGARIA, LZ. Members of the Bulgarian Radio Club Blagovestnik will be QRV with special call sign LZ595IP during the month of September to honor the memory of Orthodox saints. QSL via bureau.

GREENLAND, OX. Bo, OZ1DJJ is QRV as OX3LX from Aasiaat Island, IOTA NA-134, and possibly islands Upernavik and Uummannaq until September 20. QSL via OZ0J.

ARUBA, P4. Members of the Aruba Amateur Radio Club will be QRV with special event call P42WW during the month of September to commemorate the end of World War II. QSL via P41G.

GREECE, SV. Pol, SV1AHH and George, SV1GGF will be QRV with special event call SX1AFM during September to mark the 70th anniversary of the Hellenic Air Force History Museum. Activity will be on 80 to 6 meters using all modes. QSL via LoTW.

ICELAND, TF. Norbert, DJ7JC is QRV as TF/DJ7JC until October 18. Activity is holiday style on 160 to 10 meters using CW, RTTY and FT8. QSL via DJ5BWD.

EUROPEAN RUSSIA, UA. Members of the Moscow city branch of the Radio Amateur Union of Russia are QRV as RA75RA until September 3 to commemorate the 75th anniversary of the national nuclear industry. QSL via R2ATC.

HONG KONG, VR. Special call sign VR2HK90 is QRV until May 31, 2021 to celebrate the 90th anniversary of the Hong Kong Amateur Radio Transmitting Society. QSL via VR2HK.

SOUTH SUDAN, Z8. Diya, YI1DZ is QRV as Z81D from Juba until November 10 while working for the UN World Food Programme. Activity is on the HF bands in his free time using mostly FT8. QSL via OM3JW.

THIS WEEKEND ON THE RADIO. NCCC RTTY Sprint, NCCC Sprint CW Ladder, RTTYOps World Wide RTTY, Feld Hell Sprint, ALARA Contest, YO DX HF Contest, W/VE Islands QSO Party, World Wide Digi DX Contest, Kansas QSO Party, Kentucky State Parks on the Air, RTTYOPS Weekend Sprint, SARL HF CW Contest and QCX CW Challenge are all on tap for this upcoming weekend.

The RTTYOPS Weeksprint, Worldwide Sideband Activity Contest and QCX CW Challenge are scheduled for September 1.

The VHF-UHF FT8 Activity Contest, G3ZQS Memorial Straight Key Contest, UKEICC 80-Meter SSB Contest, Phone Fray and CWops Mini-CWT Test are scheduled for September 2.

Please see August 2020 QST, page 69, September 2020 QST, page 71, and ARRL Contest Calendar and WA7BNM Contest websites for details.

73's,  
Jerry Hess, W9KTP

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**In regards to this last item, if you have any comments please send them to Kermit Carlson at :  
w9xa@arrl.org**

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Dear Central Division ARRL Member;

I have received a number of inquiries today about the FCC NPRM 20-270 which proposes to a \$50 fee for each amateur radio license application. The ARRL will be filing comments in opposition to application fees in the amateur radio service. Please read the details below from the ARRL.ORG website.

73, Kermit Carlson W9XA

From the ARRL Website;

<http://www.arrl.org/news/fcc-proposes-to-reinstate-amateur-radio-service-fees>

08/28/2020

Amateur radio licensees would pay a \$50 fee for each amateur radio license application if the FCC adopts rules it proposed this week. Included in the FCC's fee proposal are applications for new licenses, renewal and upgrades to existing licenses, and vanity call sign requests. Excluded are applications for administrative updates, such as changes of address, and annual regulatory fees.

The FCC proposal is contained in a Notice of Proposed Rulemaking (NPRM) in MD Docket 20-270, which was adopted to implement portions of the "Repack Airwaves Yielding Better Access for Users of Modern Services Act" of 2018 – the so-called "Ray Baum's Act."

The Act requires that the FCC switch from a Congressionally-mandated fee structure to a cost-based system of assessment. In its NPRM, the FCC proposed application fees for a broad range of services that use the FCC's Universal Licensing System (ULS), including the Amateur Radio Service that had been excluded by an earlier statute. The 2018 statute excludes the Amateur Service from annual regulatory fees, but not from application fees.

"[A]pplications for personal licenses are mostly automated and do not have individualized staff costs for data input or review," the FCC said in its NPRM. "For these automated processes – new/major modifications, renewal, and minor modifications – we propose a nominal

application fee of \$50 due to automating the processes, routine ULS maintenance, and limited instances where staff input is required."

The same \$50 fee would apply to all Amateur Service applications, including those for vanity call signs. "Although there is currently no fee for vanity call signs in the Amateur Radio Service, we find that such applications impose similar costs in aggregate on Commission resources as new applications and therefore propose a \$50 fee," the FCC said.

The FCC is not proposing to charge for administrative updates, such as mailing address changes for amateur applications, and amateur radio will remain exempt from annual regulatory fees. "For administrative updates [and] modifications, which also are highly automated, we find that it is in the public interest to encourage licensees to update their [own] information without a charge," the FCC said.

The FCC also proposes to assess a \$50 fee for individuals who want a printed copy of their license. "The Commission has proposed to eliminate these services – but to the extent the Commission does not do so, we propose a fee of \$50 to cover the costs of these services," the FCC said.

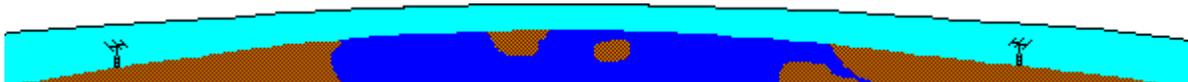
The Ray Baum's Act does not exempt filing fees in the Amateur Radio Service. The FCC dropped assessment of fees for vanity call signs several years ago.

Deadlines for comments and reply comments will be determined once the NPRM appears in the Federal Register. File comments by using the FCC's Electronic Comment Filing System (ECFS), posting to MD Docket No. 20-270. This docket is already open for accepting comments even though deadlines have not yet been set.

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ARRL Central Division  
Director: Kermit A Carlson, W9XA  
w9xa@arrl.org  
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If you have ham items for sale, email me a list along with prices and contact information. I will put it in the next newsletter.

I want to thank those that have been sending in articles for the newsletter. All items are appreciated.



Until Next Time,

73

*John*

W3ML

<http://nwidclub.weebly.com/>



**DX**

