

HAM CHATTER



Volume 51 Issue 05

An Official BARC, W4AMC, Publication

May 2017

Editor, Joe Jeansonne, WB4JOE

Email: hamchatter @ w4amc.com

FCC Personal Radio Service Revisions Will Affect GMRS, FRS, CB, Other Part 95 Devices

In a lengthy Report and Order (R&O) in a proceeding (WT Docket No. 10-119) dating back 7 years, the FCC has announced rule changes affecting the General Mobile Radio Service (GMRS), the Family Radio Service (FRS), the Citizens Band Radio Service (CBRS or "CB"), as well as other applications that fall under the FCC's Part 95 Personal Radio Services (PRS) rules and regulations. Part 95 devices typically are low-power units that communicate over shared spectrum and, with some exceptions, do not require an individual user license from the FCC. As the R&O explains, common examples of PRS devices include "walkie-talkies;" radio-control cars, boats, and planes; hearing assistance devices; CB radios; medical implant devices; and Personal Locator Beacons.

"This draft Report and Order completes a thorough review of the PRS rules in order to modernize them, remove outdated requirements, and reorganize them to make it easier to find information," the FCC said in a summary attached to the R&O. "As a result of this effort, the rules will become consistent, clear, and concise."

GMRS and FRS devices are used for personal communication over several miles; compact FRS handhelds, often sold in pairs, are wide-

ly available. While GMRS and FRS share spectrum, GMRS provides for greater communications range and requires an FCC license; FRS does not.

"The rules will increase the number of communications channels for both GMRS and FRS, expand digital capabilities to GMRS (currently allowed for FRS), and increase the power/range for certain FRS channels to meet consumer demands for longer range communications (while maintaining higher power capabilities for licensed GMRS)," the FCC explained.

The amended rules eventually will eliminate combination FRS/GMRS radios for the most part, but allow up to 2 W PEP output for FRS transceivers. "[M]any current users of GMRS/FRS combination radios do not obtain licenses to operate over the GMRS frequencies in those radios," the FCC said. "Much of this problem likely arises as a result of the mass consumer marketing of combination devices for sale to the public in large quantities to users who do not know about or do not understand the licensing requirements attached to such radios and obligations associated with operating in the GMRS."

- Read more at <https://go.joeteach.us/2pKLuAA>

Next Meeting May 9, 2017

The Brightleaf Amateur Radio Club will have its regular meeting at 7:30 PM Tuesday, May 9, at VFW Post 7032 on 1108 Mumford Road in Greenville. The program will be by Murray Adams, WA4DAN, about the CY9C St. Paul Island DXpedition in August 2016

All members, families and guests are invited to attend.



BARC Board Meeting

The next board meeting will be Tuesday, April 30 at 7:30 PM at the Offices of Monday & Monday, (CPA), Suite D, East Victoria Court. All members invited.

Motorola Solutions Expands Patent Infringement Complaints against Hytera

Motorola Solutions on March 29 announced that it had filed patent infringement complaints with the Regional Court of Düsseldorf, Germany, against Hytera Communications of Shenzhen, China, and Hytera Mobilfunk of Bad Munder, Germany.

The legal action in Germany came on the heels of complaints the company filed in the US District Court for the Northern District of Illinois, alleging that Hytera’s digital mobile radio (DMR) products employ techniques and systems that infringe on Motorola Solutions’ patents and trade secrets. Already known for its Land Mobile Radio Service products, Hytera entered the Amateur Radio DMR market last year.

The Regional Court complaints assert that Hytera’s two-way wireless communication devices that utilize “pseudo-trunking” functionality infringe on

a Motorola Solutions’ patent.

Motorola also has filed a patent infringement complaint against Hytera with the US International Trade Commission.

In the complaints, Motorola is seeking to prevent Hytera from offering and delivering products that, it contends, infringe on Motorola patents and to halt the marketing and sale of the infringing devices.

Read more at <https://go.joeteach.us/2qCWyy1>

Next VE Session

Exams will be held on Tuesday, June 20, 2017 at VFW Post 7032 on 1108 Mumford Road in Greenville, NC. Exams will start promptly at 6:30 PM. For more info email Gary, KE5ACR at ve@w4amc.com. (remove spaces) Study material at <http://www.arrl.org/coursestraining>. Walk-ins welcome.

Please bring the following required:

- Photo ID (drivers license)
- Original Amateur Radio License
- Copy of Amateur Radio License
- Original CSCE’s
- Copy of CSCE
- Test fee is \$15.00 .
- Proof of Tech Plus if before 3/21/87 and doing paper upgrade to General.
- SS Number will be needed if you don’t have an FRN number. *

* More info at <<http://bit.ly/1FOhE1S>>.

NC ARES Internet

<http://www.ncarrl.org/ares/>

Pitt County ARES EC needed!



In this Issue..

ARRL Seeking Synergy with Maker Movement..... 1
Motorola Solutions Sues Hytera Communications, Alleging Patent, Trade Secrets Theft..... 2
Girl Scouts and Guides “Thinking Day on the Air” Generates Enthusiasm for Ham Radio..... 4
February 2017 BARC VE Session Results..... 4
BARC Regular Meeting Minutes—March 14, 2017..... 6
7th Annual JWA Touch A Truck 7 BARC CALENDAR OF EVENTS..... 8



Happy Birthday

Brightleaf Amateur Radio Club members birthdays in **April**.

- 14 W4TEP Thomas Parsons
- 22 K4DKW Jeffrey Meyer

Well Wishes

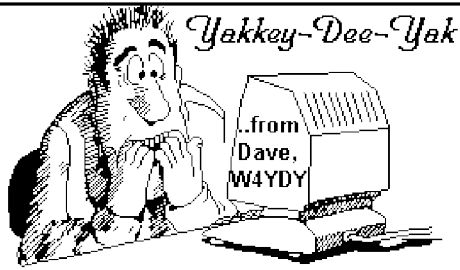
Thoughts and Prayers go out to the following:

Family of Charlie Wells, K4SKI

Please inform Joe Jeansonne, KB4JOE, of any changes.

Additions or corrections to KB4JOE

PUBLISHED MONTHLY BY THE BRIGHTLEAF ARC, P. O. BOX 8387, GREENVILLE, NC 27835 * NON COPYRIGHT MATERIAL CONTAINED HEREIN MAY BE REPRINTED WITHOUT PRIOR PERMISSION WITH CREDIT GIVEN TO THIS PUBLICATION * PRESIDENT - JEFF MEYER, K4DKW *FIRST V. PRESIDENT - DAVE WOOD, W4EJ * SECOND V. PRESIDENT - DAVE LANGLEY, W4YDY * SECRETARY ALBERT SANCHEZ, WA7FXB * TREASURER—TERRY MONDAY, K4ZYD * BOARD MEMBER - PAT WILLIAMS, KG4NSC * BOARD MEMBER - BYRON HIGHLAND, K4BMH * VE LIAISON, GARY CORIELL, KE5ACR *PUBLIC RELATIONS &PUBLIC SERVICE COORDINATOR PAT WILLIAMS, KG4NSC * W4AMC/W1VOA/W4UHS TRUSTEE, TOM PARSONS, W4TEP * HAM CHATTER EDITOR - JOE JEANSONNE, WB4JOE * WEB SITE EDITOR - MIKE MONTEITH, KM4OLT * EMAIL ADDRESSES ON BARC WEB SITE * OPINIONS BY WRITERS MAY NOT NECESSARILY BE THAT OF THE BRIGHTLEAF ARC. * CONTRIBUTIONS ARE TAX DEDUCTABLE. * BOARD MEMBERS IN BOLD



A crime to operate mobile in North Carolina!

Senate Bill 364 makes it a crime for the driver to operate an Amateur Radio mobile station in North Carolina effective December 1, 2017. A copy of the bill can be found at <http://www.ncleg.net/Sessions/2017/Bills/Senate/PDF/S364v1.pdf>. Write to you State Senator to exempt Amateur Radio. If you don't know who represents you in the North Carolina Senate, you can find out at <http://www.ncleg.net/representation/WhoRepresentsMe.aspx> If you haven't written you Senator, please do. I have!

Hamfests

Went to two hamfest in April. The RARSfest in Raleigh was on Saturday April 15 and the Down East hamfest was a week later in Kinston. Had a good time at both. For the first time, I had a table at the RARSfest and finished selling most of the equipment from the AI4TN estate. Also sold some of my old 2 meter radios that I did not need any more. Didn't ge much for them but it's better that just sitting around gathering dust. Need to do more of that. Guess I could get a little for some old equipment and accessories such as old microphones, etc. that date back to the 1950's. Guess that stuff would be called antiques! Did see one microphone on Ebay like I got in 1959 that was priced at over \$60. It's in a box with several other microphones that I got in the early to mid 1950's.

Saw a few BARC members in Raleigh and also in Kinston. Raleigh had very good attendance but Kinston was down a little. Always have a good time an any hamfest in North Carolina because I always run in friends from the past that I have not seen for a while. In Raleigh, I didn't get a chance to get around to all the flea market tables because I had

to spend most of my time at my table. But I think I saw most everyone as they came by.

Get on Digital

As I write this, I only have one item from the AI4TN estate to sell. It's the RIGblaster Plus for less than half the price that a new one cost. It is in new condition and I don't think that Bill used it very much. The cables and manual are included in the original box. To quote a review from QST, "Thanks to the RIGblaster's ability to centralize the all audio and switching connections between your computer and your transceiver, what may have been a phone-only station can easily become a facility for CW, packet, SSTV, PSK31, RTTY, MFSK16 and more." With the latest free software, fldig, there are over a hundred digital modes. It will operate FSK for RTTY or AFSK for all digital modes including RTTY. Sure wish that was in production when I started using PSK. If anyone is interested, please contact me. The price is not set in stone! The digital modes are very interesting and offer many hours of fun and education. It's another great way to communicate. The RIGblaster Plus is a very economical way to start.

BARC Programs

Upcoming programs for BARC are set for May and June. Have several more good programs ready to go, just have to coordinate them with the dates. The May program will be by Murray Adams, WA4DAN. about the CY9C St. Paul Island DXpedition in August 2016. The June program will be by Bernie, Nobles, WA4MOK. about the BARC Field Day organization and planning.

Field Day

Field Day is coming up June 24/25. Bernie, WA4MOK, is chairman and he is in the process of making plans and will need you help. His program at the June meeting will have the details. This is an especially great time for the recently licensed hams. For those that are learning or have questions about operating, it's a great time to get some operating experience. No matter the class of you license, you will be able to

operated any of the bands and modes because there will be an Amateur Extra class there at all times to assist when needed. The club call sign, W4AMC, will be used. Everyone that participates always has a lot of fun and everyone learns. Don't miss it!

Dave, W4YDY

Membership dues for BARC are due January 1. Those who have not paid their dues will not be listed on the roster and will be removed from the Ham Chatter mailing list starting in April. Membership dues are the same as they were in 2015 and are as follows:

- Regular Member \$20.00**
- Family Member \$2.00**
- Associate Member (Non-Licensed) \$5.00**
- Honorary Member \$0.00**
- New Hams: 18 and younger (1st year) \$5.00**
- New Hams: 19 and older (1st year) \$10.00**

FCC Proposes Levying Huge Fine on New York Police Radio Jammer

The FCC has proposed a fine of more than \$400,000 on a Queens, New York, man who has admitted making unauthorized transmissions on New York City Police Department (NYPD) radio frequencies, maliciously interfering with NYPD officers' communications. Jay Peralta, 20, is alleged to have transmitted false bomb threats, false claims of criminal activities involving firearms, false distress calls from purported NYPD officers, and threats against individual NYPD officers. The unauthorized transmissions began a year ago, according to the FCC.

"Through his actions, as he described them to the NYPD, Mr. Peralta has demonstrated not only a deliberate disregard of the Commission's authority and rules, but of the safety of NYPD officers and the public that they are called to serve and protect," the FCC said in a Notice of Apparent Liability (NAL), issued on April 14. "Commission action in this context is therefore essential to safeguard authorized operations on spectrum

licensed for public safety uses, and, accordingly, a substantial penalty appears warranted."

The FCC said the NAL addresses nine unauthorized and interfering transmissions that Peralta has admitted to the NYPD that he made on its radio system. The FCC said Peralta's unauthorized transmissions included false bomb threats, false claims of criminal activities involving firearms, false distress calls from purported NYPD officers, and threats against individual NYPD officers.

FCC Chairman Ajit Pai, said that with the NAL, the FCC is making it "abundantly clear that it will not tolerate unauthorized and illegal use of the radio spectrum." The entire Commission now must sign off on such proposed fines, and Pai said he was grateful to his fellow FCC members for "agreeing to act swiftly and strongly" in the matter. "This may not be a typical pirate radio case in which an unauthorized operator inflicts damage on a radio broadcast-

er that is operating with a valid FCC license," Pai said, "but it does involve unauthorized interference to critical public safety communications systems." Peralta was arrested last fall along with two other men suspected of committing several robberies. According to news accounts, police found a cache of scanners and radios in one of the suspects' homes. The FCC said it was alerted by a Twitter post about an unlawful intrusion on the NYPD radio system and dispatched an Enforcement Bureau agent to check it out. On September 30, the NYPD contacted the FCC's New York Office and advised that it had arrested Peralta and another individual in connection with unauthorized transmissions on NYPD's radio system. According to police reports, the other individual arrested — Ricardo Torres, 29, described as "a ham radio enthusiast" in some news accounts — allegedly provided the radios used.

Read more at <https://go.joeteach.us/2qIMJxF>

February 2017 BARC VE Session Results

On the April 18, 2017 BARC VE session, two candidates attended and both passed Amateur Radio exams

Reggie Bradshaw, **K4EEP**, Greenville, upgraded to General. Also Mike Geaney, **KN4CVM**, Oriental, passed the Technician exam.

Their new licenses were posted on the FCC web site on April 25, 2017. BARC congratulates both for their accomplishment.

The VE's that attended were VE Liaison Gary Coriell, **KE5ACR**, Dave Langley, **W4YDY**, and Morris Lewis, **AK4MU**.

The next regular BARC VE session is scheduled for **June 20, 2017**.

The next
BARC VE
session is
scheduled for
June 20, 2017

Ham Ads

Monday & Monday, CPA's, PA

Certified Public Accountants

TERRY A. MONDAY, CPA, CVA, EA
K4ZYD

105-D East Victoria Ct.
Greenville, NC 27858

Phone (252) 321-6007
Fax (252) 321-2991

MARK'S MARINE, INC.

Mark Langley
Mike Langley
KD4MTT

Hwy. 33 East
Greenville, NC
252 758-3309
Fax 252 758-1396

H&R BLOCK

Pat Williams, KG4NSC
Senior Tax Advisor 5

Buyers Market
2400 S Memorial Dr
Greenville, NC 27834
Tel 252.756.1209 Fax 252.756.6378
patrick.williams@tax.hrblock.com
www.hrblock.com

K4KBB
J & P Machine Works, Inc.



4291 US 264 East
Greenville, NC 27834
252-758-1719 Fax 758-9031

Manufacturer of Swiss Screw Machine Products.
Pins, Shafts, Rods and Spacers.



All batteries & light bulbs for home & business

- Huge selection of Duracell® Ultra Batteries & Bulbs
- FREE & quick installs on car/truck batteries*
- Smartphone, tablet, & iPod® repairs
- **FREE** battery test & systems check
- Battery & light bulb recycling
- FREE laptop battery testing
- Business accounts welcome

*with purchase of car/light truck battery on most vehicles at participating locations

Batteries + Bulbs

740 Greenville Blvd. SE, Suite 500-A
Greenville, NC
252.353.8143

Store Hours Mon-Fri 9-6, Sat 9-7, Sun 11-6 bp167@batteriesplus.net

www.batteriesplus.com

Ham Ads will be run, free of charge in Ham Chatter for three months for each renewal. Ads must be received by the last week of the month to be included in the following issue.

**Send ads to:
Ham Chatter, PO Box 8387,
Greenville, NC 27835, ATTN: Joe Jeansonne
or email to: hamchatter@w4amc.com(no spaces)**

This equipment is from the estate of Bill Finch, Jr., AI4TN. The price is negotiable. Rigblaster Plus - includes cabling, manual and software in the original box \$60. Email or call W4YDY, w4dydave@suddenlink.net.

BARC Regular Meeting Minutes— April 11, 2017BRIGHTLEAF ARC MEETING
MINUTES

April 11, 2017

The BARC meeting was called to order at 19:35pm by President Meyer at the VFW hall on Mumford Road.

Introductions: Those in attendance are listed in the notebook, the Pledge of Allegiance was recited. After introductions and the Pledge President Meyer turned the meeting over to Dave Pulver, KG4CZV who presented the program item: What is Search and Rescue.

UPCOMING ACTIVITIES:

April 15th: Raleigh hamfest.

April 22nd:

MS Walk, Greenville Town Common, 9:00AM, anyone interested in participating contact Doug Ferris K4ROK.

Byron Highland, K4BMH announced that the DownEast hamfest, Kinston NC, will take place on April 22nd. Doors open at 8:00. Tickets prior to April 15, \$5.00 each or 3 for \$12.00. After the 15th,

\$6.00 each or 3 for \$15.00. This is the 27th year for Kinston.

Field Day Committee Chairman Bernie Nobles, WA4MOK is looking for 3 teams of 2 people each; possible dry-run in May.

VOA and Oakwood projects; temporarily on hold.

The Treasurer's report indicated a balance of \$4,073.17.

The next VE session will be April 18th, 6:30pm at the VFW location.

W4GDF repeater report: It was reported that the W4GDF, 147.090 repeater is back on the air. Bernie Nobles, WA4MOK explained that the Repeater has some internal programming that inhibits transmission if power is lost. John Johnson, KE4TZN, is working to resolve that issue, along with some other problems with the Controller. It was further noted that running and maintaining the two repeaters (145.350 and 147.090) can be expensive. With that in mind, during the Monday night

ARES Ragchew net, John Johnson indicated that any contributions to the PCRA (Pitt County Repeater Association) would be appreciated. After some further discussion it was moved by Dave Wood, W4EJ, seconded by Peter VanHouten, KG4WEZ that: "the Brightleaf ARC make a \$300.00 contribution to the PCRA." The motion was then amended, the amount was increased to \$500.00. The amended motion passed by a unanimous vote.

There was no Secretary's report.

There was no Equipment report.

The next BARC Board meeting will be April 25th at 19:30pm at the offices of Monday & Monday, 105D east Victoria Court in Greenville.

The meeting was adjourned at 20:34pm.

Respectfully submitted
Albert Sanchez, WA7FXB
BARC Secretary



Amateur Radio Volunteers Support Boston Marathon

Nearly 280 Amateur Radio communication volunteers on April 17 participated the 2017 Boston Marathon, the 121st running of the event organized by the Boston Athletic Association (BAA). Warmer-than-typical temperatures for the Patriots' Day race raised concern for increased medical issues, but lower humidity and some cloud cover later in the afternoon mitigated the potential for problems.

Amateur Radio's primary communication role involved logistics. Amateur Radio operations included relaying medical resupply requests, picking up runners via medical sweep buses, conveying medical statistics as required by the Red Cross and Massachusetts Department of Public Health, and providing situational awareness as needed along the entire 26-mile route. Amateur Radio also backed up EMS communications, and the team relayed several ambulance requests along the route. Brett Smith, AB1RL, one of the BAA Organizational Committee representative, said Marathon organizers were very pleased with the efforts of Amateur Radio Operators.

"Congratulations to everyone on a job very well done," Smith said afterward. "We were braced for a busy day, and our preparation helped see us through to make sure it was never anything we couldn't handle." Smith said that many volunteers enjoyed spending their day supporting the Marathon this year.

from our volunteers thanking us for our work too. So the work was appreciated not only by organizers from the BAA but the volunteers as well," he said.

Course volunteer Matt Knowles, KC1AEI, was among them. "I feel like Amateur Radio plays an important role in the safety and security of the Boston Marathon," said Knowles. "Our net operators were succinct, clear, and very patient, as we took care of our individual responsibilities on the course. All of the communications volunteers put forth a unified effort on Monday, which made for another successful race.

Rob Macedo, KD1CY, the other BAA Organizational Committee representative, reported that state emergency managers were very pleased with the logistics and situational awareness support from Amateur Radio operators. He was stationed at the Multi-Agency Coordination Center (MACC), located at the State Emergency Operations Center (EOC) in Framingham.

"At one point mid-afternoon, one of the two finish line medical tents was filled to capacity," Macedo recounted. "The BAA and EMS representatives at the MACC were impressed at receiving the on- and off-diversion reports in a timely fashion from Finish Segment Coordinator Matt Brennan, NM1B."

Read more at <https://go.joeteach.us/2pKYrL4>

**NETS
VHF/UHF**

- ◆ BARC Net, Mondays, 2000 on 147.09 MHz, W4GDF Repeater.
- ◆ Newport SkyWarn Tues. nights 2100E Grifton-146.685-88.5 tone
- ◆ Newport-145.450..... IRLP 8561 links to Columbia
- ◆ Jacksonville-147.000- 88.5 tone
- ◆ Oriental-147.210-151.4 tone
- ◆ 444 Newport-444.825- 88.5 tone
- ◆ Swansboro-146.760- 88.5 tone
- ◆ Grantsboro-145 230 - 85.4 tone.
- ◆ Kinston Amateur Radio Society Net, 1,3,4 Tuesdays, 2000 hrs. on 145.47 MHz., W4OIX repeater in Kinston.
- ◆ Eastern North Carolina Traffic Net, Every night, 2030 on 146.685 MHz.
- ◆ Wilson Amateur Radio Club Net, Thursdays @ 2000 on 146.76 MHz.
- ◆ Piedmont Coastal Traffic Net, Nightly 2030 on 146.88 MHz.
- ◆ Carteret County ARS (CCARS) Emergency Net, Tuesdays, 1930 on the Newport 145.45 (-) MHz.
- ◆ Coastal Emergency Linking Net, Wednesday, 2100 ET on Ahoskie 145.13, Buxton 145.15, Columbia 146.835 & 443.30, Elizabeth City 146.655, Greenville, 145.35, Hertford 147.33, Williamston 145.41 & 444.25

HF

- ◆ Tar Heel Emergency Communications Net on 3923 kHz Nightly 1930.

NTS CW Nets

- ◆ 3.571 2000 hours, slow speed (5-8 wpm) Carolinas Slow Net
- ◆ 3.573 1900 hours, high speed (20wpm)
- ◆ 3.573 2200 hours, slow speed (12-14 wpm), South Carolina/ North Carolina

Greenville repeaters

147.09/69 - 145.35/144.75

444.8/449.8

All use 131.8 tone

"We're already seeing e-mails

**BARC
CALENDAR OF EVENTS**

May 9	Club Meeting	July 15	HAMFEST Cary
May 20	SOS Show Off Shack #3	July 22	SOS Show Off Shack #4
May 30	Board Meeting	July 25	Board Meeting
June 13	Club Meeting	August 8	Club Meeting
June 20	BARC VE	August 12	SOS Show Off Shack #5
June 24-25	Field Day		

Regular Meeting - 2nd Tuesday @ 7:30 PM

Board Meeting - Last Tuesday

BARC 2 METER NET - MONDAY NIGHTS AT 8:00 PM - 147.09 W4GDF REPEATER - 131.8 Tone
BRIGHTLEAF AMATEUR RADIO CLUB STATIONS
W 1 V O A - W 4 A M C - W 4 U H S



**MAY 2017
Next Meeting
MAY 09, 2017**

To:



Ham Chatter
Brightleaf Amateur Radio Club
PO Box 8387
Greenville, NC 27835