

# The Dipole

*Radiating the News of the Marple Newtown Amateur Radio Club*

May 2007

Next Club Meeting: Thurs. May 3<sup>rd</sup>, 7 p.m. at The Gauntlett Center

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## THE PROGRAM: D STAR ARRIVES

The program for the May meeting of the Marple Newtown Amateur Radio Club will feature a Paul Tabatschkow. N3UD (ex-WE3NUD, WB3EUY) is an active Chester County Amateur Radio operator who is using the Icom D-Star protocol for digital communications.

His original call, WB3EUY was obtained while working in the United States. Following his success in obtaining the US call of WE3NUD, his quest to parallel his VE3NUD, a Canadian call was successful. The Ontario, Canada call is VE3NUD and the successful search proved the call United States call of N3UD. His spouse Lynnette is also licensed as W3GZZ; her former call was KB3GZZ.

While first chartered by the Japanese Amateur Radio League (JARL), D-STAR is an open protocol. This translates to the reality that everyone can implement it. As a new form of communications, this means that researcher, experimenters, and users of this new form of digital communications will be required to both learn a new vocabulary and, at the present, purchase a new radio.

It is refreshing that D-STAR can be built using both homebrew and commercial equipment and software. This openness will aid in both popularity and growth. With an Amateur Radio parallel to another era – that which occurred when FM was introduced to the former AM champion of communications on the Amateur Radio bands – it is hoped this operating concept will have a similar acceptance and growth.

Thanks to his pioneer efforts, the May, MNARClub speaker will provide this views of the past, current, and future use of this new form of digital communications.



*N3UD will provide information  
about new form of digital communications.*

MARPLE NEWTOWN AMATEUR RADIO CLUB  
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**Meetings, Nets, and Packet BBS**

Monthly Club Meetings: First non-holiday Thursday,  
7:00 p.m. at the Gauntlett Center in Newtown Square,  
Delaware County. Talk-in: 147.195 repeater  
Daily Weather and Information Net: Every morning at 8:30  
a.m. on 147.195 repeater  
Club Web Page (including online version of *The Dipole*):  
<http://mnarc.org>  
Delaware County ARES Net: Every Wednesday at 19:30 local

**E-Mail Advice from ARRL**

The American Radio Relay League (ARRL) has issued an e-mail warning. The ARRL alert was issued for the benefit of all League members, with a special focus for those members who use the ARRL E-Mail Forwarding Service.

As a help to Marple Newtown Amateur Radio Club members who are ARRL members, more

information about the League's e-mail forwarding service visit <http://www.arrl.org/members-only/email fwd.html>

The following notice was provided by the ARRL...

Do not follow instructions in bogus e-mails: The ARRL is alerting members and especially users of the ARRL E-Mail Forwarding Service about bogus e-mails that claim to be from the "arrl.net user support team." There is no such entity, and the messages do not originate with ARRL but appear to be coming from outside the US. Recipients should not follow the instructions in the e-mail, which reads, "We have received reports that your e-mail account has been used to send a large amount of unsolicited commercial email messages during this week. We suspect that your computer had been infected by a recent virus and now contains a hidden proxy server. We recommend you to follow our instructions in order to keep your computer safe." Following the instructions will have the opposite effect, however, infecting your computer with the MyDoom Trojan worm and making it part of a spamming network. The League urges all members to invest in and use anti-virus software.

**Hamfest July**

Keeping with their annual programming, the Mid-Atlantic Amateur Radio Club will once more present the group's **Valley Forge Hamfest and Computer Fair**. Held on **Sunday, July 15** at the Kimberton Fire Company Fairgrounds, this event with its indoor and outdoor sales area will be held rain or shine. Admission is \$6 and unlicensed spouse and children of the licensed Ham Radio operator are free.

The Valley Forge Hamfest and Computer Fair opens its doors to buyers and visitors at 8 a.m. The organizers advise sellers that they may gain entrance to the Kimberton Fire Company Fairgrounds at 7 a.m.

The inside table have electricity and they have multiple pricing. For vendors desiring one to four tables, the price per table is \$10 Vendors desiring five or more tables, the price per table is \$8 per

table. These prices do not include the admission charge

Persons desiring indoor table reservations are asked to contact Mike Pilotti, KF3CD, 212 Amada Drive, Phoenixville, Pennsylvania 19460. Mr. Pilotti may also be reached at 610-935-4429 or via e-mail at [reservations@marc-radio.org](mailto:reservations@marc-radio.org).

Also available are tailgate-selling areas. These \$6 spaces are one car width with head-in parking. There are no reserved tailgate spaces and, like the other selling area, the charge does not include the admission charge.

For additional information, contact the following: [Hamfest-info@arc-radio.org](mailto:Hamfest-info@arc-radio.org) or website at [www.marc-radio.org/hamfest.html](http://www.marc-radio.org/hamfest.html). Postal contact may be done via MARC, PO Box 2154, Southeastern, Pennsylvania 19399.

To aid drivers the MARC volunteers will provide talk-in via 145.13 MHz minus and PL 131.8 and 147.06 MHz plus and PL 131.8

The following selections are the directions to the Kimberton Fire Company Fairgrounds...

#### From the East:

**New Jersey:** PA Turnpike West to Exit 326 (Valley Forge). Go through toll plaza and take first exit on right (Valley Forge). Follow to Route 23. See ALL below.

**Philadelphia:** Schuylkill Expressway West to Mall Blvd. Exit 327 (old exit 25). Turn Right on Mall Blvd. Go to stop light, turn Right on to Gulph Road. Follow to Route 23. See ALL below.

**ALL:** Route 23 West through Valley Forge Park and Phoenixville. Left on Route 113 South (McDonalds on Right). Follow approximately 1.9 miles, Fairgrounds are on the Right.

#### From the West:

**Harrisburg:** PA Turnpike East to Exit 312 (Downingtown). Route 100 South to Route 113 North. Cross Route 401. Continue approx. 5 miles on Route 113 to Fairgrounds entrance on Left.

**Reading:** Route 422 East to Route 724 (past Pottstown). Turn Left off exit ramp onto Route 724. Route 724 ends and becomes Route 23. Follow Route 23 East to Route 113 South (McDonalds on Left). Turn Right onto Route 113, follow approximately 1.9 miles, Fairgrounds are on the Right.

#### From the South:

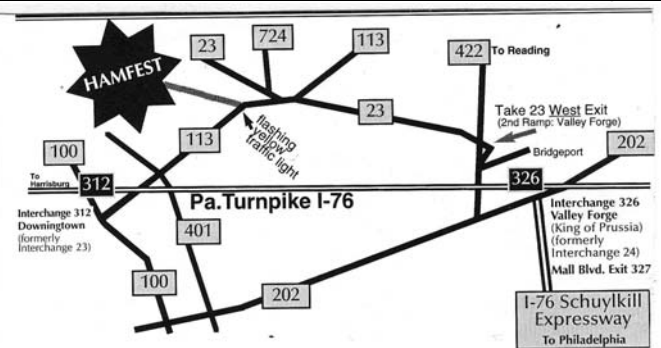
**Delaware:** 1-95 North to Route 202 North. Continue to exit for Route 401. Turn Left off of exit ramp onto Route 401 West. Continue to Route 113 North. Turn Right onto Route 113, continue approx. 5 miles to Fairground entrance on Left

#### From the North:

**Allentown:** Northeast Extension South to PA Turnpike Exit 326 (Valley Forge). Go through toll plaza and take first exit on right (Valley Forge). Follow to Route 23. Continue on Route 23 West through Valley Forge Park and Phoenixville. Left on Route 113 South (McDonalds on Right). Follow approximately 1.9 miles, Fairgrounds are on the Right.

**GPS Coordinates:** N 40° 07.626 min  
W 75° 34.008 min

This map is help in driving to the MARC Hamfest and Computer Fair.



## ARRL Card Checking Program Changes

For the information of those readers of the *eDipole* who are DX chasers, the ARRL has announced some changes in the DXCC, WAS and VUCC card checking program rules. Effective immediately, the 10-year rule has been dropped for DXCC

The newly implemented program will now authorize ARRL DXCC card checkers now have been authorized to check cards *for current entities only*, whose dates go back to November 15, 1945.

The ARRL announcement also stated, "Card checkers still may not verify cards for 160-meter contacts nor cards confirming contacts with deleted entities."

In a sidebar announcement the ARRL provided the following information:

The ARRL DXCC Desk has approved these operations for DXCC credit: DX0JP (Spratly Islands, 2007 operation), 9M4SDX (Spratly Islands, 2007 operation), 9U9Z (Burundi, 2007 operation), YW0DX (Aves Island, 2007 operation) and 1A4A (Sovereign Military Order Of Malta, 2007 operation).

For more information, visit the DXCC Web page <http://www.arrl.org/awards/dxcc>

## Other Rules of Life

There has been much written and discussed about the truths and applications of Mr. Murphy's Law. Once we accept this treatise, it is time to grow and discover similar observations that most times have no relief. This collection is provided for readers of the *eDipole*. By being careful, one or

two of these realism may be avoid, but the chances for this success are very dim.

**Bove's Theorem**

The remaining work to finish in order to reach your goal increases as the deadline approaches.

**Brook's Law**

Adding manpower to a late software project makes it later.

**Cann's Axiom**

When all else fails, read the instructions.

**Deadline-Dan's Demon**

Every task takes twice as long as you think it will take. If you double the time you think it will take, it will actually take four times as long.

**Demian's Observation**

There is always one item on the screen menu that is mislabeled and should read "ABANDON HOPE ALL YE WHO ENTER HERE."

**Dr. Caligari's Come-Back**

A bad sector disk error occurs only after you've done several hours of work without performing a backup.

**Finagle's Rules:**

To study an application best, understand it thoroughly before you start.

Always keep a record of data. It indicates you've been working.

Always draw your curves, then plot the reading.

In case of doubt, make it sound convincing.

Program results should always be reproducible.

They should all fail in the same way.

Do not believe in miracles. Rely on them.

**Franklin's Rule**

Blessed is the end user who expects nothing, for he/she will not be disappointed.

**Gilb's Law of Unreliability**

At the source of every error which is blamed on the computer you will find at least two human errors, including the error of blaming it on the computer.

Any system which depends on human reliability is unreliable.

Undetectable errors are infinite in variety, in contrast to detectable errors, which by definition are limited.

Investment in reliability will increase until it exceeds the probable cost of errors, or until someone insists on getting some useful work done.

**Gummidge's Law**

The amount of expertise varies in inverse proportion to the number of statements understood by the general public.

**Harp's Corollary to Estridge's Law**

Your "IBM PC-compatible" computer grows more incompatible with every passing moment.

**Heller's Law**

The first myth of management is that it exists.

**Hind's Law of Computer Programming**

Any given program, when running, is obsolete.

If a program is useful, it will have to be changed.

If a program is useless, it will have to be documented.

Any given program will expand to fill all available memory.

The value of a program is proportional to the weight of its output.

Program complexity grows until it exceeds the capability of the programmer who must maintain it.

Make it possible for programmers to write programs in English, and you will find that programmers cannot write in English.

**Hoare's Law of Large Programs**

Inside every large program is a small program struggling to get out.

The Last One's Law of Program Generators

A program generator creates programs that are more "buggy" than the program generator.

**Meskimen's Law**

There's never time to do it right, but always time to do it over.

**Murphy's Fourth Law**

If there is a possibility of several things going wrong, the one that will cause the most damage will be the one to go wrong.

**Murphy's Law of Thermodynamics.**

Things get worse under pressure.

**Ninety-Ninety Rule of Project Schedule**

The first ninety percent of the task takes ninety percent of the time, and the last ten percent takes the other ninety percent.

**Nixon's Theorem**

The man who can smile when things go wrong has thought of someone he can blame it on.

**Nolan's Placebo**

An ounce of image is worth a pound of performance.

**Osborn's Law**

Variables won't constants aren't.

**O'Toole's Commentary on Murphy's Law**

Murphy was an optimist.

**Peer's Law**

The solution to a problem changes the problem.

**Rhode's Corollary to Hoare's Law**

Inside every complex and unworkable program is a useful routine struggling to be free.

**Robert E. Lee's Truce**

Judgement comes from experience; experience comes from poor judgement.

**Sattinger's Law**

It works better if you plug it in.

**Shaw's Principle**

Build a system that even a fool can use, and only a fool will want to use it.

**Snafu Equations**

Given any problem containing N equations, there will be N+1 unknown.

An object or bit of information most needed will be least available.

Any device requiring service or adjustment will be least accessible.

Interchangeable device's won't.

In any human endeavor, once you have exhausted all possibilities and fail, there will be one solution, simple and obvious, highly visible to everyone else.

Badness comes in waves.

**Thoreau's Theories of Adaptation**

After months of training and you finally understand all of a program's commands, a revised version of the program arrives with an all-new command structure.

After designing a useful routine that gets around a familiar "bug" in the system, the system is revised, the "bug" is taken away, and you're left with a useless routine.

Efforts in improving a program's "user friendliness" invariably lead to work in improving user's "computer literacy." That's not a "bug," that's a feature!

**Weinberg's Corollary**

An expert is a person who avoids the small errors while sweeping on to the grand fallacy.

**Wood's Axiom**

As soon as a still-to-be-finished computer task becomes a life-or-death situation, the power fails.

**Zymurgy's First Law of Evolving System**

**Dynamics**

Once you open a can of worms, the only way to recan them is to use a larger can.

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**Murphy's Law**

Mr. Murphy and his law truly need to be revisited from time to time. These revisits are prompted by the actual need to explain why some project or other form of necessary action does not produce the expected results.

Equally important are new corollary additions that Murphy's Law committee members add from time-to-time.

There are multiple stories that deal with the origin of Mr. Murphy's Law. One of these fable-producing stories cites the origin of the simple Murphy's Law ("If anything can go wrong, it will") occurred in 1949 at what has been described as the North Base at Edwards Air Force Base

It was named after Capt. Edward A. Murphy, an engineer working on Air Force Project MX981. This project dealt with research on the amount of sudden deceleration a person can stand in a crash.

This story tells that on a particular, undocumented day, it was discovered that a transducer was wired incorrectly. It was said that Murphy discovered the indentitiy of the technician responsible for this error and Murphy blurted, "If there is any way to do it wrong, he'll find it."

As occurs on many projects of this complexity, documentation is an important part of the total effort. In this case, thecontractor's project manager kept a list of "laws" and added this one, which he called Murphy's Law.

Shortly after the discovery of the wiring error and the newly create "law,; the Air Force's Dr. John Paul Stapp rode a sled on the deceleration track to a stop. He experienced a "pull" of 40 Gs. Following this ride, he gave a press conference. One of his comments at that press conference helped spread the impact of Murph's Law. He said that their good safety record on the project was due to a firm belief in Murphy's Law and in the necessity to try and circumvent it.

The spread of this "law" began when aerospace manufacturers began ot popularize this simple, but all-to-true explanation for unwanted events.. They

began to widely use references to Murphy's Law in their advertisements. This prompted the use of the Law and this added to the popularity and the public's help in birthing Murphy's Law.

This following in no way is the final collection of Murphy's Law. Because of the continuing observations and documentation, there may never be a final collection.

### **MURPHY'S LAWS**

1. If anything can go wrong, it will (and at the worst possible moment).
2. Nothing is as easy as it looks.
3. Everything takes longer than you think it will.
4. If there is a possibility of several things going wrong, the one that will cause the most damage will be the one to go wrong.

### **MORE OF MURPHY'S LAWS**

- Trust everybody ... then cut the cards.
- Two wrongs are only the beginning.
- If at first you don't succeed, destroy all evidence that you tried.
- To succeed in politics, it is often necessary to rise above your principles.
- Exceptions prove the rule ... and wreck the budget.
- Success always occurs in private, and failure in full view.
- Quality assurance doesn't.
- The tough part of a Data Processing Manager's job is that users don't really know what they want, but they know for certain what they don't want.
- Exceptions always outnumber rules.
- To steal ideas from one person is plagiarism; to steal from many is research.
- No one is listening until you make a mistake.
- He who hesitates is probably right.

- The ideal resume will turn up one day after the position is filled.
- If something is confidential, it will be left in the copier machine.
- One child is not enough, but two children are far too many.
- A clean tie attracts the soup of the day.
- The hardness of the butter is in direct proportion to the softness of the butter.
- The bag that breaks is the one with the eggs.
- When there are sufficient funds in the checking account, checks take two weeks to clear. When there are insufficient funds, checks clear overnight.
- The book you spent \$20.95 for today will come out in paperback tomorrow.
- The more an item costs, the farther you have to send it for repairs.
- You never want the one you can afford.
- Never ask the barber if you need a haircut or a salesman if his is a good price.
- If it says, "One size fits all," it doesn't fit anyone.
- You never really learn to swear until you learn to drive.
- The colder the X-ray table, the more of your body is required on it.
- Love letters, business contracts and money due you always arrive three weeks late, whereas junk mail arrives the day it was sent.
- When you drop change at a vending machine, the pennies will fall nearby, while all other coins will roll out of sight.
- The severity of the itch is inversely proportional to the reach.
- Experience is something you don't get until just after you need it.

- Life can be only understood backwards, but it must be lived forwards.
- Interchangeable parts won't.
- No matter which way you go, it's uphill and against the wind.
- If enough data is collected, anything may be proven by statistical methods.
- Work is accomplished by those employees who have not reached their level of incompetence.
- Progress is made on alternative Fridays.
- No man's life, liberty, or property is safe while the legislature is in session.
- The hidden flaw never remains hidden.
- As soon as the stewardess serves the coffee, the airline encounters turbulence.
- For every action, there is an equal and opposite criticism.
- People who love sausage and respect the law should never watch either of them being made.
- A conclusion is the place where you got tired of thinking.
- When reviewing your notes for a test, the most important ones will be illegible.
- A free agent is anything but.
- The least experienced fisherman always catches the biggest fish.
- Never do card tricks for the group you play poker with.
- The one item you want is never the one on sale.
- The telephone will ring when you are outside the door, fumbling for your keys.
- If only one price can be obtained for a quotation, the price will be unreasonable

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*"If we all did the things we are capable of,  
we would astound ourselves."*

**Thomas Edison**

## Overseas Reader Comments

As a thank you for the ongoing contributions the UK native Dennis Stacey has made to many issues of the **eDipole**, a copy of this electronic voice of the Marple Newtown Amateur Radio Club is e-mailed to our "foreign correspondent."

In a fashion not much unlike the PBS special correspondence from Alistair Cooke, Mr. Stacey provides US readers with a glimpse of the current and past events of his home area in England. In his casual, yet informing way, he shares many facets of his homeland.

As has been demonstrated in several previous Philadelphia Flower Show offerings, the British and their neighbors in Ireland, Scotland, and Wales have a true gift. Even a small glance at their yard gardens is an attestation to their gardening skills.

In his most recent electronic message he describes the current gardening activities of his daughter Vivien and an honest assessment of his own activities:

Vivien has been on holiday this week past and has wrought great works in the garden. I too have been outside on various chores with the result that today I sit here answering e-mails while my aching body tells me I should ease off bit.

Dennis Stacey added a general comment about the most recent issue of the eDipole...

I do enjoy the eDipole, even, or perhaps especially, the gobbledy-gook of the technical stuff. Needless to say I did very poorly on the quiz, I did not try very hard; it seems harder to get the brain to work these days.

In a collection of specific comments, our English reader-correspondent cited...

The bit on "daylight saving" reminded me of the war years when the UK did indeed have double summer time. This was in part to facilitate people working in their gardens or allotments after work; Dig For Victory was a great imperative during WW2 due to the U-boat menace. We had become dependant so much on food imports from the Empire and elsewhere that the war gave us a rude awakening. We never went short of vegetables but meat supplies were a

problem, we were so dependant on New Zealand and South American imports hence we had stringent rationing of what there was. It is ironic that as a nation we were healthier than we had ever been at the end of the war, solely due to less fat and more exercise. The exception was the scourge of tuberculosis which was a real problem in the forties and fifties. My great aunt lost two of her three daughters to this disease and the third was saved by the introduction of an anti-biotic specific to the condition.

It was strange in those war years to go to bed in daylight. In mid-summer it would be near eleven o'clock PM before it got really dark.

In this latest e-mail from the UK, Mr. Stacey's attention was directed to the topic of Global Warming. Just like here in America, there appear to be two very divided camps in the discussion of this environmental issue. He explained...

I confess that I am a little worried by the present obsession over here with the so-called 'Global Warming.' It has become a media feeding frenzy; every item seems to be related in some way to 'Carbon Footprint' and the doom that awaits us all. I believe I have touched on this before; that the earth is a dynamic which has never been stable, hence the great flood, the 'Ice Age' the advance and recession of the polar caps has been going on for millions of years. It is only in the past hundred years or so that man has attempted to accurately record the weather, yet they feel free to extrapolate all sorts of horrors in store if we do not stop whatever we are doing and start contemplating our aforementioned "Carbon Footprint". I must say that there is great virtue in conserving energy in all its forms and conservation of our wonderful planet should concern us all. But the current hysteria does not impress me. All the scientists subscribing to the recent reports are paid by the UN who sponsored the study. As someone said recently on TV, if you want to get a grant for any study project, you have to relate it to Global Warming. A recent program by Climatologists said that man produced CO2 was insignificant

compared to the amount produced continuously by volcanoes and that the CO2 increase was related to sun spot activity, i.e., it was the result of the earth warming and not the cause. The "experts" refute this but did not offer a rationale to substantiate it. This brings me back to the "Famous Last Words" bit. An expert is defined thus; an expert is a has-been, and a spurt is a drip under pressure.

Dennis Stacey's recent communiqué finished with a topic that will find a good number of Americans agreeing with him. His discussion dealt with golf and the televising of this form of pasture pool. He shared the following...

I do not enjoy the prospect of TV this week, the current coverage of "The Masters" from Georgia is an annual pain. Churchill said that golf consisted of trying to knock a small ball into a smaller hole with a singularly ill-designed instrument. I cannot but wonder what an alien from a distant planet would make of grown men, dressed in somewhat ridiculous garb, trying to knock a silly little ball into a silly little hole whilst watched by untold millions across the world, and being paid ludicrous sums for it.

As Robbie Burns the Scottish poet said " Oh would some power the gift to give us- to see ourselves as others see us"

Actually he said " Oh wad say powr the gift tae ge us- to see oursen as others see us" but I thought I should translate.

Loved the bit about the T34 rescued from the lake. Who knows what else may turn up in future?

I had better shut up now,  
God Bless  
Dennis

The refreshing dialog and the ease of e-mail, while not the same as a face-to-face conversation or a telephone call, helps maintain contacts between people in two continents. Mr. Stacey's ease of description and his international insight make contacts of this nature an enjoyable dialog. Dialog worth sharing.

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*"You're happiest while you're  
making the greatest contribution."  
Robert F. Kennedy*

## Money Matters

Money can purchase many items that can be thought of as “fun.” The following is a collection of money fun facts...

- During fiscal year (FY) 2006, the Bureau of Engraving and Printing produced 33 million notes a day with a face value of approximately \$529 million.
- 95% of the notes printed each year are used to replace notes already in, or taken out of circulation. During FY 2006, 54.80% of the notes printed were \$1 notes.
- The first paper currency issued by the U.S. Department of the Treasury were Demand Notes Series 1861.
- During the Civil War period, the Bureau of Engraving and Printing was called upon to print paper notes in denominations of 3 cents, 5 cents, 10 cents, 25 cents, and 50 cents. The reason for this is that people hoarded coins because of their intrinsic value which created a drastic shortage of circulating coins.
- In 1929, the size of currency was reduced to about 2/3's of its former size when production was converted to 12-subject plates. The familiar portraits and back designs of our currency were also established at that time.
- A stack of currency one mile high would contain over 14½ million notes.
- The approximate weight of a currency note, regardless of denomination is (1) one gram. There are 454 grams in one (1) U.S. pound, therefore, there should be 454 notes in (1) one pound(Avoirdupois system). If the troy system were used, there are (12) twelve ounces in (1) one pound; therefore, if one note weighs approximately (1) one gram, then (1) troy pound contains approximately 375 notes.

- If you had 10 billion \$1 notes and spent one every second of every day, it would require 317 years for you to go broke.
- Currency paper is composed of 25% linen and 75% cotton. Red and blue synthetic fibers of various lengths are distributed evenly throughout the paper. Prior to World War I the fibers were made of silk.
- Between the Fort Worth, Texas and the Washington, DC Facilities approximately 18 tons of ink per day are used.
- Have you ever wondered how many times you could fold a piece of currency before it would tear? About 4,000 double folds (first forward and then backwards) are required before a note will tear.
- The average life span of a Federal Reserve Note by denomination:

| <u>Denomination</u> | <u>Life Span</u> |
|---------------------|------------------|
| \$1                 | 21 months        |
| \$5                 | 16 months        |
| \$10                | 18 months        |
| \$20                | 24 months        |
| \$50                | 55 months        |
| \$100               | 89 months        |

- Our present sized currency measures 2.61 inches wide by 6.14 inches long, and the thickness is .0043 inches. If each currency note printed was laid end to end, they would stretch around the earth's equator approximately 24 times. Larger sized notes in circulation before 1929 measured 3.125 inches by 7.4218 inches.
- The 100 dollar note has been the largest denomination of currency in circulation since 1969.
- The obverse and reverse of the Great Seal of the United States appeared in a currency design for the first time when the \$1 Silver Certificate. Series 1935, was issued. The Seal dates back to 1782 -- before the Constitution.
- The legend, "In God We Trust," became a part of the design of United States currency

in 1957 and has appeared on all currency since 1963.

- The largest note ever printed by the Bureau of Engraving and Printing was the \$100,000 Gold Certificate, Series 1934. These notes were printed from December 18, 1934 through January 9, 1935 and were issued by the Treasurer of the United States to Federal Reserve Banks **only** against an equal amount of gold bullion held by the Treasury. These notes were used for transactions between FRBs and were not circulated among the general public.
- The origin of the "\$" sign has been variously accounted for, however, the most widely accepted explanation is that the symbol is the result of evolution, independently in different places, of the Mexican or Spanish "P's" for pesos, or piastres, or pieces of eight. The theory, derived from a study of old manuscripts, is that the "S" gradually came to be written over the "P," developing a close equivalent of the "\$" mark. It was widely used before the adoption of the United States dollar in 1785.
- Contrary to popular belief, the automobile pictured on the back of the \$10 note is not a Model "T" Ford. It is merely a creation of the designer of the bill.
- The hands of the clock in the steeple of Independence Hall on the reverse of the \$100 Federal Reserve Note are set at approximately 4:10.
- Martha Washington is the only woman whose portrait has appeared on a U.S. currency note. It appeared on the face of the \$1 Silver Certificate of 1886 and 1891, and the back of the \$1 Silver Certificate of 1896.
- The beginning of an establishment for the engraving and printing of U.S. currency can be traced as far back as August 29, 1862, to a single room in the basement of the Main Treasury Building where two men and four women separated and sealed by hand \$1 and \$2 U.S. notes which had been printed by private bank note companies. Today there

are approximately 2,800 employees who work out of two buildings in Washington, D.C. and a facility in Fort Worth, Texas.

During Fiscal Year 2006, it cost approximately 5.7 cents per note to produce 8.2 billion U.S. paper currency notes.

### Comparison Can Be Shocking

Each time drivers approach a gasoline station they receive a shock. They see the upwardly moving prices of the various grades of gasoline. Yet, we rarely have a similar experience when we make purchases of other fluids. These are fluids which may people feel are either equal or greater in their importance when compared to that of gasoline.

The following is a short list of everyday fluids. This list provides the approximate cost of a container and the equivalent cost of a gallon of the commodity.

Remember, these are items we consume on a regular basis. Compare them to the last cost of a gallon of gasoline observed or purchased. This comparison makes one think, and also puts things in perspective.

| Item           | Size (oz.) | Price (\$) | Price Per Gallon (\$) |
|----------------|------------|------------|-----------------------|
| Diet Snapple   | 16         | 1.29       | 10.32                 |
| Lipton Ice Tea | 16         | 1.19       | 9.52                  |
| Gatorade       | 20         | 1.59       | 10.17                 |
| Ocean Spray    | 16         | 1.25       | 10.00                 |
| Brake Fluid    | 12         | 3.15       | 33.60                 |
| Vick's Nyquil  | 6          | 8.35       | 178.13                |
| Pepto Bismol   | 4          | 3.85       | 123.20                |
| Whiteout       | 7          | 1.39       | 22.42                 |
| Scope          | 1.5        | 0.99       | 84.48                 |

And this is the REAL KICKER...

Evian water 9 oz. @ \$1.49 is \$21.19 per gallon!

Yes you read correctly: \$21.19 for WATER and the buyers often may not know the source of this fluid. In case readers of the *eDipole* have not been told this, Evian spelled backwards is Naive.

In case readers are not sufficiently shocked, think of the price of the last computer ink cartridge. With costs that make many people feel that at the

current prices for computer ink, ".....the computer should be free."

By the way, the cost per gallon of computer ink is a shocking \$5,200.

### Are These True

Before the days of the Internet and inexpensive computer-based layout, page layout, and printer, it was said by many that one of the test of validity was information that was printed in bound book form. So much of that truth was based upon the costs of having books printed in the then expensive formats.

After all, if one expended the necessary money to put together a book, it "had to be the truth."

Most people have learned, either through the shared experiences of others or through their own pain, items stocked or shared by the computer share a validity that is rightfully questionable.

With this non-assured validity kept as a tool of evaluation, the following citations may or may not be true. Anyone wanting to volunteer as members of a validation committee the eDipole would welcome the outcome of your search for the truthfulness of the following rumored truths.

The liquid inside young coconuts can be used as a substitute for blood plasma.

No piece of paper can be folded in half more than seven (7) times. Oh go ahead, give this a try.

Donkeys kill more people annually than plane crashes.

You burn more calories sleeping than you do watching television.

Oak trees do not produce acorns until they are fifty (50) years of age or older.

The first product to have a bar code was Wrigley's gum.

The King of Hearts is the only king without a mustache. American Airlines saved \$40,000 in 1987 by eliminating one (1) olive from each salad served in first-class

Venus is the only planet that rotates clockwise. (Some people say that since Venus is normally associated with women; this is not surprising.)

Apples, not caffeine, are more efficient at waking you up in the morning

Most dust particles in your house are made from DEAD SKIN!

The first owner of the Marlboro Company died of lung cancer. So did the first " Marlboro Man. "

Walt Disney was afraid OF MICE!

PEARLS MELT IN VINEGAR!

The three most valuable brand names on earth in that order \*



Marlboro



Budweiser

It is possible to lead a cow upstairs... but, not downstairs.

A duck's quack doesn't echo, and no one knows why.

Dentists have recommended that a toothbrush be kept at least six (6) feet away from a toilet to avoid airborne particles resulting from the flush.

Richard Millhouse Nixon was the first U.S. president whose name contains all the letters from the word "criminal." The second? William Jefferson Clinton

And the best for last.....

Turtles can breathe through their rear end.

\* Three of the most costly and therefore dangerous drugs in the USA are nicotine, caffeine, and alcohol and they are all legal and well advertised.

### A True Price Cut

People are constantly looking for a bargain. If a proposal by the Federal Communications Commission (FCC) is enacted, the proposed lowering of the charge for a vanity fee by more than 40 percent, United States' Amateur Radio operators will be able take advantage of a true bargain.

**The Formal Notice**

The formal notice stated the following...

The FCC has proposed reducing the regulatory fee to obtain or retain an Amateur Radio vanity call sign by more than 40 percent starting later this year. In a Notice of Proposed Rule Making (NPRM), "Assessment and Collection of Regulatory Fees for Fiscal Year 2007" in MD Docket 07-81 released April 18, the Commission is proposing to cut the fee from its current \$20.80 to \$11.70. If ultimately adopted, that would mark the lowest fee in the history of the current vanity call sign program. The FCC proposed to collect nearly \$290.3 million in FY 2007 regulatory fees.

In their release, the FCC reminded Amateur Radio operators, "These fees are mandated by Congress and are collected to recover the regulatory costs associated with the Commission's enforcement, policy and rulemaking, user information, and international activities."

In their comments, the Commission added, "Consistent with our established practice, we intend to collect these regulatory fees in the August-September 2007 time frame in order to collect the required amount by the end of the fiscal year."

Readers of the *eDipole* are reminded that comments on MD Docket 07-81 are due May 3. Reply comments are due May 11.

**A Double History**

A review of the history of the Vanity Call Sign program reminds readers that the *current* vanity call sign fee has fluctuated over the 11 years of the now-in-place vanity call sign program. This history shows a previous low of \$12 to a high of \$50. A portion of the FCC's logic for the proposed changes is found the Commission's anticipation of approximately 14,700 Amateur Radio vanity call sign "payment units" or applications during the next fiscal year.

Remembering that there are in reality two tiers of vanity call signs, *eDipole* readers must determine which era of vanity call sign holders they fall into. Vanity call holders of the *current* variety are minded that the vanity call sign regulatory fee is payable not only when applying for a new vanity call sign but upon renewing a vanity call sign for a new term.

As a help in describing if a vanity call sign is one of the *current* vanity call sign licenses, those issued under the *current* Amateur Radio vanity call sign program came up for renewal last year. This *current* program began in 1996.

There s good news for Amateur Radio operators holding vanity call signs issued prior to 1996. You are exempt from having to pay the vanity call sign regulatory fee at renewal. The explanation for this difference is because the United States' Congress did not authorize the FCC to collect regulatory fees until 1993. Because of the "heritage" identity of these vanity call signs, their holders do not appear as vanity licensees in the FCC Amateur Radio database.

**When and How**

Amateur Radio operators are reminded that license renewals may only be done in a 90-day window that precedes the license expiration date. Any applications submitted prior to that date will be returned.

The ARRL VEC will process license renewals for vanity call sign holders for a modest fee. As a reminder, this service is available to both ARRL members and nonmembers.

It should be noted that this fee is less for League members. It should be noted that non-vanity renewals continue to be free for ARRL members.

Trustees of club stations with vanity call signs may renew either via the ULS or through a Club Station Call Sign Administrator, such as ARRL VEC.

Members of the ARRL are invited to visit the "ARRL Member Instructions for License Renewals or Changes" page <http://www.arrl.org/fcc/memberlicenseinstructions.html>

The "Instructions for License Renewals or Changes" page <http://www.arrl.org/fcc/licenseinstructions.html> provides information for general renewal procedures for nonmembers.

**Additional Information**

The League provides even more information. This additional information can be obtained on the ARRL VEC's "FCC License Renewals and ARRL License Expiration Notices" page <http://www.arrl.org/arrlvec/renewals.html> Also, license application and renewal information and links to the required forms are available on the

ARRL Amateur Application Filing FAQ Web page <http://www.arrl.org/FandES/field/regulations/application-filing-faq.html>. Readers of the *eDipole* are reminded that a convenient source of FCC forms can be found at the following, <http://www.fcc.gov/formpage.html>.

### End of Life Span

Faithful story supplier Charles Higgins, W3CAU, has volunteered yet another meaningful piece for the May issue of the *eDipole*. As shocking as this reality may seem, it truth is both assured and an example of planned obsolescence and a planned lifespan for Microsoft products.

Capitalism is alive and well.

Make no mistake, sooner or later, Vista is in your future. All of Microsoft's products have a defined and published "life cycle," and **Microsoft will "retire" full support for XP Home and Professional on Apr. 14, 2009. That's just two years from now.**

XP will continue to work after that date, of course. But you can think of Apr. 14, 2009, as the date when Microsoft's support attentions will turn away from XP. **For the next five years thereafter (until 2014), online self-help for XP (e.g., the Knowledge Base) will remain available. Microsoft may, if it chooses, continue to release critical patches and updates.**

For more information on a large collection of Microsoft products, readers of the *eDipole* are invited to visit the following URL... <http://support.microsoft.com/gp/lifeselect>.

### Armed Forces Special Event

The US Army, Air Force, Navy, Marine Corps and Coast Guard will co-sponsor the annual military/Amateur Radio Communications Tests to celebrate the 57th Armed Forces Day. Although Armed Forces Day falls on Saturday, May 19, the 2007 Armed Forces Day Military/Amateur Crossband Communications Test will take place a week earlier, on Saturday, May 12. This rescheduling has been done to avoid conflicting with the Dayton Hamvention, which is scheduled for May 18-20.

Not only will participating Amateur Radio operators enjoy the opportunity to make a collection of unusual radio contacts, they will also gain from the experience of crossband operations. This annual event will feature military station-to-amateur station crossband tests on SSB. Additionally, there will also be the opportunity to copying the Secretary of Defense message via digital modes.

The Armed Forces Day announcement stated, "These tests give Amateur Radio operators and Short Wave Listeners (SWLs) an opportunity to demonstrate their individual technical skills, and to receive recognition from the Secretary of Defense and/or the appropriate military radio station for their proven expertise."

The concept of crossband operation begins with Amateur Radio participants listening for designated military stations on military frequencies; conversely, military participants will listen for Amateur Radio calls in the adjacent ham band.

Card collectors will appreciate the announcement that QSL cards will go to Amateur Radio stations making contact with participating military stations. Special commemorative certificates will be awarded to anyone who receives and copies the digital Armed Forces Day message from the Secretary of Defense.

The following is an aid in the proper frequencies used by specific military stations being operated by the various military organizations.

\*\*\*

#### **MILITARY-TO-AMATEUR CROSS BAND SSB TEST CONTACTS**

Military-to-Amateur cross band operations will take place on the dates/times in ZULU (UTC), and frequencies listed below for each station. Voice contacts will include operations in single sideband voice (SSB). Some stations may not operate the entire period, depending on propagation and manning. Participating military stations will transmit on selected Military MARS frequencies and listen for amateur radio stations in the Amateur bands indicated below. The military station operator will announce the specific amateur band frequency being monitored. Duration of each voice contact should be limited to 1-2 minutes. The following stations will be transmitting on MARS frequencies listed below which are provided as "Window/Dial Frequency" in kHz.

#### **Army Stations**

**STATION: AAZ** (12 May 1400Z - 13 May 0300Z)

| <u>Frequency</u> | <u>Emission</u> | <u>Amateur Band</u> |
|------------------|-----------------|---------------------|
| 4038.9 kHz       | LSB             | 80M                 |
| 6913.0 kHz       | LSB             | 40M                 |
| 7424.0 kHz       | USB             | 40M                 |
| 14.402.0 kHz     | USB             | 20M                 |
| 13996.0 kHz      | USB             | 20M                 |
| 18211.0 kHz      | USB             | 17M                 |
| 18639.0 kHz      | USB             | 17M                 |
| 13509.5 kHz      | RTTY            | 20M                 |
| 7639.5 kHz       | RTTY            | 40M                 |
| 13512.5 kHz      | MT-63           | 20M                 |
| 7578.5 kHz       | MT-63           | 40M                 |

Location: Fort Huachuca, AZ  
 Address:  
 Commander NETCOM/9th ASC  
 ATTN: NETCOM-OPE-M (MARS) (31)  
 2133 Cushing Street  
 Ft. Huachuca, AZ 85616-7070  
 POC: Mr. Dwayne Smith  
 DSN: 821-7324  
 Commercial: (520) 533-7324

**STATION: AAC** (12 May 1300Z - 13 May 0100Z)

| Frequency   | Emission | Amateur Band |
|-------------|----------|--------------|
| 3348.5 kHz  | LSB      | 80M          |
| 7363.0      | LSB      | 40M          |
| 13910.5 kHz | USB      | 20M          |

Location: Lexington, KY  
 Address:  
 HQ 1st BDE, 100th DIV (IT) MARS Station  
 Barrow Army Reserve Training Center  
 1051 Russell Cave Pike  
 Lexington, KY 40505  
 POC: Barry Jackson  
 Commercial: (859) 227-0137

**STATION: ABH** (12 May 1600Z - 13 May 2300Z)

| Frequency   | Emission | Amateur Band |
|-------------|----------|--------------|
| 3195 kHz    | LSB      | 80M          |
| 3360 kHz    | LSB      | 80M          |
| 4440 kHz    | LSB      | 80M          |
| 4466 kHz    | LSB      | 80M          |
| 7360 kHz    | LSB      | 40M          |
| 7720 kHz    | LSB      | 40M          |
| 8040 kHz    | LSB      | 40M          |
| 8094.5 kHz  | LSB      | 40M          |
| 14483.5 kHz | USB      | 20M          |
| 14489.5 kHz | USB      | 20M          |
| 17443.0 kHz | USB      | 17M          |
| 17592.5 kHz | USB      | 17M          |
| 20978.0 kHz | USB      | 15M          |
| 20559.0 kHz | USB      | 15M          |

Location: Schofield Barracks, HI  
 Commander, 396th Signal Company  
 30th Signal Battalion, 96857  
 POC: CPT Maribel Ostergaard  
 Commercial: (808) 656-2814

**STATION: ALM** (12 May 1600Z - 13 May 2300Z)

| Frequency   | Emission | Amateur Band |
|-------------|----------|--------------|
| 13741.5 kHz | USB      | 20M          |
| 4003.0kHz   | LSB      | 80M          |
| 7317.0 kHz  | LSB      | 40M          |

Location: Fort Wainwright  
 Commander, 507 the Sig Co, 99703  
 POC: CW4 Roderick Mitchell  
 507th Signal Company  
 Commercial: (907-353-0082)

**STATION: WAR** (12 May 1200Z - 13 May 2400Z)

| Frequency  | Emission | Amateur Band |
|------------|----------|--------------|
| 4020.9 kHz | LSB      | 80M          |
| 7504.0 kHz | LSB      | 40M          |

|             |     |     |
|-------------|-----|-----|
| 13512.5 kHz | USB | 20M |
| 20518.5 kHz | USB | 15M |

Location: Newark, DE  
 Address:  
 500 North Wakefield Dr  
 Newark, DE 19702  
 POC: Mr. John Scoggin  
 DSN: 343-3654  
 Commercial: (302) 451-5000

**STATION: WUG-231** (12 May 1300Z - 13 May 0200Z)

| Frequency   | Emission | Amateur Band |
|-------------|----------|--------------|
| 4032.9 kHz  | LSB      | 80M          |
| 7.360.0 kHz | LSB      | 40M          |
| 6.826.0 kHz | LSB      | 40M          |
| 14486.0 kHz | USB      | 20M          |
| 14663.5 kHz | USB      | 20M          |
| 20973.5 kHz | USB      | 15M          |

Location: Memphis, TN  
 Address:  
 USACE Memphis District Office  
 ATTN: Jim Pogue  
 Public Affairs Office Room B-202  
 167 N. Main St.  
 Memphis, TN 38103-1894  
 POC: Mr. Jim Pogue  
 Commercial: (901) 544-4109

**Air Force Station**

**STATION: AIR** (12 May 1200Z - 2400Z)

| Frequency   | Emission | Amateur Band |
|-------------|----------|--------------|
| 4517.1 kHz  | USB      | 80M          |
| 6996.1 kHz  | USB      | 40M          |
| 13985.1 kHz | USB      | 20M          |
| 20737.6 kHz | USB      | 15M          |

POC: MR. VINCENT MACANAYNAY  
 Address:  
 89TH CS/SCOR  
 Andrews AFB, MD 20762  
 COMMERCIAL: (301) 981-0365

**STATION: AIR-2** (12 MAY 1200Z TO 2400Z)

| Frequency   | Emission | Amateur Band |
|-------------|----------|--------------|
| 4590.1 KHZ  | USB      | 80M          |
| 7540.1 KHZ  | USB      | 40M          |
| 13993.1 KHZ | USB      | 20M          |

POC: DON POQUETTE  
 ADDRESS: AFCA / AF MARS  
 203W LOSEY ST  
 SCOTT AFB, IL 62225  
 COMMERCIAL: (618) 229-5944

**Navy/Marine Corps Stations**

**STATION: NAV** (12 MAY 1200Z - 13 MAY 2330Z)

| Frequency   | Emission | Amateur Band |
|-------------|----------|--------------|
| 4010.0 KHZ  | LSB      | 80M          |
| 7348.0 KHZ  | LSB      | 40M          |
| 14478.5 KHZ | USB      | 20M          |
| 20994.0 KHZ | USB      | 15M          |

ADDRESS: HQ NAVMARCORMARS RADIO STATION  
 NAV CHEATHAM ANNEX BLDG. 117  
 108 SANDA AVE  
 WILLIAMSBURG, VA 23185-5830  
 POC: BO LINDFORS  
 COMMERCIAL: (757) 887-4494 DSN: 953-4494

**STATION: NAV3** (12 MAY 1200Z - 13 MAY 0400Z)

| Frequency   | Emission | Amateur Band |
|-------------|----------|--------------|
| 4014.0 KHZ  | LSB      | 80M          |
| 7394.5 KHZ  | LSB      | 40M          |
| 13974.0 KHZ | USB      | 20M          |
| 20997.0 KHZ | USB      | 15M          |

ADDRESS: NAVMARCORMARS RADIO STATION  
 NAV3  
 9035 OCEAN DR SUITE 3A  
 CORPUS CHRISTI, TX 78419-5234  
 POC: ITSC (SW) BROWN  
 COMMERCIAL: (361) 961-5002 DSN: 861-5002

**STATION: NAV4** (12 MAY 1200Z - 13 MAY 0400Z)

| Frequency   | Emission | Amateur Band |
|-------------|----------|--------------|
| 4011.5 KHZ  | LSB      | 80M          |
| 7376.5 KHZ  | LSB      | 40M          |
| 14467.0 KHZ | USB      | 20M          |
| 21758.5 KHZ | USB      | 15M          |

ADDRESS: NAVMARCORMARS RADIO STATION  
 NAV4  
 615 PREBLE AVE  
 CAMP BARRY, BLDG. 153  
 GREAT LAKES, IL 60088-2850  
 POC: MR. DAVID OUELLETTE  
 COMMERCIAL: (847) 688-3787 DSN: 792-3787

**STATION: NBL** (12 MAY 1200Z - 13 MAY 0400Z)

| Frequency   | Emission | Amateur Band |
|-------------|----------|--------------|
| 4041.5 KHZ  | LSB      | 80M          |
| 7371.5 KHZ  | LSB      | 40M          |
| 14391.5 KHZ | USB      | 20M          |
| 20623.5 KHZ | USB      | 15M          |

ADDRESS: NAVMARCORMARS RADIO STATION  
 PO BOX 161 NAVAL SUBMARINE BASE  
 GROTON, CT 06349-5161  
 POC: ITC (SW) DEVER  
 COMMERCIAL: (860) 694-2061/3716 DSN: 694-2061/3716

**STATION: NPL** (12 MAY 1500Z - 13 MAY 0400Z)

| Frequency   | Emission | Amateur Band |
|-------------|----------|--------------|
| 4003.0 KHZ  | LSB      | 80M          |
| 7351.5 KHZ  | LSB      | 40M          |
| 14463.5 KHZ | USB      | 20M          |
| 20936.0 KHZ | USB      | 15M          |

ADDRESS: NAVMARCORMARS RADIO STATION  
 937 NORTH HARBOR DRIVE  
 SAN DIEGO, CA 92132-5100  
 POC: ITC (SW) THOMASON  
 COMMERCIAL: (619) 532-1490 DSN: 522-1490

**STATION: NUW** (12 MAY 1500Z - 13 MAY 0400Z)

| Frequency | Emission | Amateur Band |
|-----------|----------|--------------|
|-----------|----------|--------------|

|             |     |     |
|-------------|-----|-----|
| 4044.0 KHZ  | LSB | 80M |
| 7381.5 KHZ  | LSB | 40M |
| 13528.5 KHZ | USB | 20M |
| 20952.5 KHZ | USB | 15M |

ADDRESS: NAVMARCORMARS RADIO STATION  
 260 W. PIONEER FSC BLDG.  
 NAS WHIDBEY ISLAND, WA 98277  
 POC: MR. DIGGER O'DELL  
 COMMERCIAL: (360) 675-2823 DSN: 820-8038

**SECRETARY OF DEFENSE MESSAGE  
 TEST VIA DIGITAL MODES.**

The Secretary of Defense message will be transmitted via digital modes including RTTY, PACTOR, AMTOR, PSK-31, MFSK and MT63 from the stations listed below, including frequencies, mode, and date/time in Zulu (UTC). All frequencies are listed for center of intelligence. Offset as appropriate for your TNC. (Note: Not all stations may necessarily operate on all the frequencies listed, depending on propagation and available equipment.)

**Army Stations**

**STATION: AAZ** (HQ Army MARS and Western Area Gateway, Fort Huachuca, AZ)

| Frequency   | Mode       | Broadcast    |
|-------------|------------|--------------|
| 6988.0 kHz  | RTTY       | 13 May/0110Z |
|             | PACTOR FEC | 13 May/0130Z |
|             | MT63       | 13 May/0220Z |
|             | PSK-31     | 13 May/0250Z |
| 14402.0 kHz | RTTY       | 13 May/0110Z |
|             | PACTOR FEC | 13 May/0130Z |
|             | MT63       | 13 May/0220Z |
|             | PSK-31     | 13 May/0250Z |

**STATION: WAR** (ARMY MARS Eastern Area Station, Newark, DE)

| Frequency   | Mode       | Broadcast    |
|-------------|------------|--------------|
| 6988.0 kHz  | RTTY       | 13 May/2300Z |
|             | PACTOR FEC | 13 May/2315Z |
| 14440.0 kHz | PACTOR FEC | 13 MAY/2330Z |
|             | AMTOR FEC  | 13 MAY/2345Z |

**Air Force Stations**

**STATION: AIR-2** (Scott Air Force Base)

| Frequency   | Mode         | Broadcast    |
|-------------|--------------|--------------|
| 7831.1 kHz  | RTTY         | 12 May/1930Z |
| PACTOR      | 12 May/2000Z |              |
| MT63        | 12 May/2030Z |              |
| MFSK        | 12 May/2100Z |              |
| 14877.1 kHz | RTTY         | 12 May/2130Z |
| PACTOR      | 12 May/2200Z |              |
| MT63        | 12 May/2230Z |              |
|             | MFSK         | 12 May/2300Z |

**Navy/Marine Corps Stations**

**STATION: NAV** (HQ NAVMARCORMARS RADIO STATION, WILLIAMSBURG, VA)

| <u>Frequency</u><br><u>Date/Time</u> | <u>Mode</u>  | <u>Broadcast</u> |
|--------------------------------------|--------------|------------------|
| 7346.5 KHZ<br>May/2340Z              | RTTY 75 BAUD | 12               |
| May/0010Z                            | AMTOR FEC    | 13               |
| May/0040Z                            | MT63         | 13               |
| 14480.0 KHZ<br>May/2340Z             | RTTY 75 BAUD | 12               |
| May/0010Z                            | AMTOR FEC    | 13               |
| May/0040Z                            | MT63         | 13               |

**STATION: NAV3** (NAVMARCORMARS Radio Station, Corpus Christi, TX)

| <u>Frequency</u><br><u>Date/Time</u> | <u>Mode</u> | <u>Broadcast</u> |
|--------------------------------------|-------------|------------------|
| 7393.0 KHZ                           | RTTY        | 12 May/2340Z     |
|                                      | AMTOR FEC   | 13 May/0010Z     |
|                                      | MT63        | 13 May/0040Z     |
| 13975.5 KHZ                          | RTTY        | 12 May/2340Z     |
|                                      | AMTOR FEC   | 13 May/0010Z     |
|                                      | MT63        | 13 May/0040Z     |

**STATION: NAV4** (NAVMARCORMARS RADIO STATION, GREAT LAKES, IL)

| <u>Frequency</u><br><u>Date/Time</u> | <u>Mode</u> | <u>Broadcast</u> |
|--------------------------------------|-------------|------------------|
| 7375.0 KHZ                           | RTTY        | 13 May/0240Z     |
|                                      | AMTOR FEC   | 13 May/0310Z     |
|                                      | MT63        | 13 May/0340Z     |
| 14468.5 KHZ                          | RTTY        | 13 May/0240Z     |
|                                      | AMTOR FEC   | 13 May/0310Z     |
|                                      | MT63        | 13 May/0340Z     |

**STATION: NBL** (NAVMARCORMARS RADIO STATION, GROTON, CT)

| <u>Frequency</u><br><u>Date/Time</u> | <u>Mode</u> | <u>Broadcast</u> |
|--------------------------------------|-------------|------------------|
| 7370.0 KHZ                           | RTTY        | 12 May/2340Z     |
|                                      | PACTOR FEC  | 13 May/0010Z     |
|                                      | AMTOR FEC   | 13 May/0040Z     |
| 14393.0 KHZ                          | RTTY        | 12 May/2340Z     |
|                                      | PACTOR FEC  | 13 May/0010Z     |
|                                      | AMTOR FEC   | 13 May/0040Z     |

**STATION: NPL** (NAVMARCORMARS RADIO STATION, SAN DIEGO, CA)

| <u>Frequency</u><br><u>Date/Time</u> | <u>Mode</u> | <u>Broadcast</u> |
|--------------------------------------|-------------|------------------|
| 7350.0 KHZ                           | RTTY        | 13 May/0240Z     |
|                                      | PACTOR FEC  | 13 May/0310Z     |
|                                      | AMTOR FEC   | 13 May/0340Z     |
| 14465.0 KHZ                          | RTTY        | 13 May/0240Z     |
|                                      | PACTOR FEC  | 13 May/0310Z     |

AMTOR FEC 13 May/0340Z

**STATION: NUW** (NAVMARCORMARS RADIO STATION, NAS WHIDBEY ISLAND, WA)

| <u>Frequency</u><br><u>Date/Time</u> | <u>Mode</u> | <u>Broadcast</u> |
|--------------------------------------|-------------|------------------|
| 7380.0 KHZ                           | RTTY        | 13 May/0240Z     |
|                                      | PACTOR FEC  | 13 May/0310Z     |
|                                      | AMTOR FEC   | 13 May/0340Z     |
| 13530.0 KHZ                          | RTTY        | 13 May/0240Z     |
|                                      | PACTOR FEC  | 13 May/0310Z     |
|                                      | AMTOR FEC   | 13 May/0340Z     |

**SUBMISSION OF SECRETARY OF DEFENSE TEST MESSAGE ENTRIES.**

Transcripts of the RTTY, PACTOR, AMTOR, PSK-31, MFSK and MT63 receiving test should be submitted "as received". No attempt should be made to correct possible transmission errors. Provide time, frequency and call sign of the military station copied, including name, call sign, and address (including ZIP code) of individual submitting the entry. Ensure this information is placed on the paper containing the test message. Each year a large number of acceptable entries are received with insufficient information, or necessary information was not attached to the transcriptions and was separated, thereby precluding issuance of a certificate. Entries must be sent to the appropriate military address as follows...

**a.** Stations copying Secretary of Defense message transmitted from **AAZ or WAR** send entries to:

Armed Forces Day Celebration  
Commander NETCOM/9th ASC  
Armed Forces Day Celebration  
Attn: NETC-OPE-MA (MARS) (31)  
Fort Huachuca, AZ 85613-5000

**b.** Stations copying Secretary of Defense message transmitted from **NAV, NAV-3, NAV-4, NBL, NPL or NUW** send entries to:

Armed Forces Day Celebration  
Chief, Navy-Marine Corps MARS  
Cheatham Annex Bldg 117  
108 Sanda Ave  
Williamsburg, VA 23185-5830

**c.** Stations copying Secretary of Defense message transmitted from **AIR-2** send entries to:

Armed Forces Day Celebration  
AFCA / Chief, AF MARS  
203W Losey St  
Scott AFB, IL 62225