

# Alliance Amateur Radio Club

Affiliated with the "American Radio Relay League"



## ZERO BEAT

October 1991

### Annual Elections !

The October 3rd meeting of the Alliance Amateur radio Club will be immediately followed by the AARC annual meeting for election of officers and one trustee. The outgoing officers are;

**President - VACANT**

**Vice President - Alan Dicks WI8T**

**Secretary - Kitty Buckwalter N8LIP**

**Treasure - Patti Hillier KE8KH**

**Trustee - Jim Ferguson N8DZA**

The two trustees with remaining terms are Larry Ashburn KE8VE and Dave Buckwalter KC3CL. Please plan on attending the October meeting and supporting your club by either running for an office or voting for a

qualified person that will lead AARC into 1992 and lots of successes.

As a reminder, all participants in the elections are required to have paid up membership dues. The dues year is May 1st to April 30th of the next year. For your convenience a blank membership application is included in this mailing for renewal if you may have forgotten to renew in May.

#### LATE STUFF

The article included in this months Zero Beat written by Larry N8EWV was given to the editor, KC3CL (yep me) months ago and I misplaced it. While recently cleaning off my desk I uncovered it in a pile of other good stuff and here it is. Sorry for the delay. But, I guess its better late than later.

KC3CL

The next meeting of the Alliance Amateur Radio Club will be held on Thursday, 3 October 1991. Meetings are held monthly at the Alliance Community Hospital at 7:30 PM in the cafeteria on the first floor. Visitors are always welcome.

DEAR SIRE...

SUPPOSEDLY, AN ACTUAL LETTER WITH ALL MISSPELLINGS, ETC., INTACT, REPRINTED FROM THE "OLE VIRGINIA HAMS AMATEUR RADIO CLUB "OLE VIRGINIA TIMES"

To Mr. (Name omitted)  
District Manager for Alabama  
(Company Name)  
3300 N. Pace Blvd.  
Pensacola, FL 32505

Dear Sir,

This letter is complain about a problem I have having with the ham radio model number 19-1101 I had got from your company. I had this shipped special to me from your store 1096 Eastdale Mall Montgomery Alabama. I was got this because I think I would get transmitt further that I did with the TRC 217 40 channel walkie talkie.

The problem that had first was when I was going to hook this radio HTX-1000 to the antenna the connector on the radio was wrong it wouldn't attach to my cable. I was able to hook it finally by making a small change in in the connektor. As soon as I tried to use it there was no sound coming at all. This happened for two days and I never did get to talk to anybody the whole two days. That day the cable company came knocking my door and said there was something causing problems at my house and disconnected my radio from the cable line. you knew when I bought the Radio that I was going to use that for my antenne. You didn't tell me not to why not?

Next time I decided to put the HTX-1000 in my automobile I though I would see how it worked their. I hooked it to my CB-antenna and at least I could hear people. But what happens now is no one wants to talk to me because they says you have to have a licenes to talk to them. Why? I dont have to have a licenes to talk on my CB. They'll talk to me there. Anyhow it dont matter much anymore because somebody done took the radio HTX-1000 from my automobile.

What I would like for you to do is to refund my money becuae I don't have the radio anymore and its not my fault I dont and I think you should give me back my money. Also the cable company here says that I hurt something in there line and want to be paid fix it. It will cost \$27482.98 to fix the equipmentthey say was damaged because uyou didnt tell me not to hook it to the cable. Please remit to me the check for\$27758.53 for damages due. To save this matter from going to court the check must be in my hand by June first or I will turn this over to my attorneys of law.

Thank you  
(Name Withheld)

#### PA QSO PARTY

The PA QSO Party SIG met on September 19th at the hospital to discuss plans for this years contest. Plans are being finalized by many of your fellow club members to operate in this years PA QSO Party. Look for us on the air on October 12th & 13th. The complete rules are contained else where in this issue of Zero Beat. In addition to the many members that will be operating from home stations the following will be portable in PA: WI8T and WX8G will be active from Indiania County with Allen and John running a multi-op station. Dan, N8LVO will be trucking off to Bradfoed county and KC3CL is deciding where he will be QRMing the cable TV this year. Jump in and join in the contest. Support the AARC club entry and have some fun too. (Submitted by WX8G)

**RULES FOR THE 1991 PENNSYLVANIA QSO PARTY**

**OPERATING PERIODS**

1600Z October 12 to 0500Z October 13 and 1300Z October 13 to 2200Z October 13

**OPERATOR, STATION AND TRANSMITTER CLASSIFICATIONS**

**SINGLE OPERATOR** - One person operating alone with no assistance. No loggers, dupers, spotting receivers, or spotting nets on any frequency. Only one receiver and transmitter may be powered up at a time. An exception will be made for operators who are handicapped to the extent that they could not operate in the contest without assistance. Such operators may have an assistant. The assistant may not make contacts or perform other duties that would not be required for normal, day-to-day operation of the station.

**MULTI OPERATOR, SINGLE TRANSMITTER** - An unlimited number of operators using one transmitter at a time. Spotting receivers are permitted; however a transceiver used as a spotting receiver may not be used as a transmitter on the same band as it was used as a spotting receiver at any time.

**MULTI OPERATOR, MULTI TRANSMITTER** - An unlimited number of operators using as many transmitters as they can handle. Anything goes as long as it's legal.

**MOBILE** - A mobile station must be fully mobile and capable of operation while in motion at highway speeds. A mobile station may be single operator, multi-single, or multi-multi. For safety reasons, a single operator mobile may have a driver and an operator. However, the driver may not participate in the operation of the station or assist in making contacts in any way.

**PORTABLE** - A portable station is a station located at a site that is not normally the location of an amateur radio station. No permanently installed equipment or antennas may be used as part of a portable station. Portable stations may be single operator, multi-single, or multi-multi.

**GRP** - A GRP station may run no more than 5 watts output power and must be single operator.

**MEDIUM POWER** - Any station running more than 5 but not more than 150 watts output power.

**QRO** - Any station running more than 150 watts output power.

**NOVICE/TECH** - Novice/Tech stations must be single operator and all operations must be on NOVICE FREQUENCIES ONLY!

**LOGS AND DUPE SHEETS**

Logs must be submitted on an official form or reasonable facsimile. Forms are available from NARC. Entries with 100 or more QSOs MUST have dupe sheets. Computer logs and dupe sheets OK. Computer logs must include a completed summary sheet!!! Illegible or late logs will be used as check logs only. 100 points will be deducted for each dupe found.

**CONTACTS**

PA stations work everyone; others work PA stations. Stations may be worked once per mode on each band. Mobiles may be reworked as they change counties.

**IDENTIFICATION**

ALL stations that are out of their normal call sign district must identify with a /4 or /7 or /3 as appropriate so that other stations can tell where they are without asking. For example - K8KVT/3

**EXCHANGES**

Sequential serial number plus county or ARRL or CRRL section. Stations on county lines will give out ONE serial number per contact but all counties may be counted as multipliers.

**MODES** - CW and Phone (SSB or FM). CW in CW subbands only. No repeater QSOs.

**FREQUENCIES**

SSB: 1850, 3980, 7280, 14280, 21380, 28580 CW: 40 KHz up from the bottom and 1810 KHz. Try 160 meters at 0300 Saturday. NOVICE/TECH: 10 KHz up from the bottom end of the subband. Remember SSB on 10 meters.

**MOBILE WINDOW** - 5 KHz below listed frequencies. PLEASE KEEP THIS CLEAR FOR WEAK MOBILES.

**QSO POINTS** - CW QSOs on 160/80 - 2 points; Other CW QSOs - 1.5 points; Phone QSOs - 1 point

**MULTIPLIERS**

Pennsylvania Stations: ARRL sections + CRRL sections + PA Counties + 1 for DX. (150 total)  
Out-of-State Stations: Pennsylvania Counties (67 total)

**FINAL SCORE** - Total Points X Total Multipliers

**MOBILE BONUS** - Add 500 points to your final score for each PA county from which you made at least 10 QSOs.

**GRP BONUS** - Multiply your final score by 2.

**NOVICE/TECH BONUS** - Multiply your final score by 3.

**AWARDS** - A minimum of 20 QSOs is required to be eligible for any award.

**CLUB TROPHY:** The PA QSO Party Traveling Club Trophy will be presented to the PA club whose members amass the largest aggregate score. Members must live within 175 miles of the club's center, must be in good standing with the club, and MUST be active in club affairs. An officer of the club must submit a list of members meeting the above criteria.

**MEDIUM/SMALL CLUB GAVEL:** A specially engraved gavel will be presented to the top scoring PA club whose membership does not exceed 75 members. Members must meet the same criteria as above.

**PLAQUES:** Plaques will be awarded to the top SINGLE OPERATOR in the following categories: PA, EPA (150 watts maximum output), WPA (150 watts maximum output), QRP, Out-of-State, Canada, PA Novice/Tech, Out-of-State Novice/Tech (if enough entries received), Central Time Zone, Western U.S.A., Nittany Amateur Radio Club. Plaques will also be awarded in these classes: Mobile station, Portable single transmitter station, Multi operator - Single transmitter station, Multi operator - Multi transmitter station.

**CERTIFICATES:** Highest scoring single op entry in each county, section, and DX country. Club awards to the winner in each club if 3 or more members enter.

SEND LOGS by November 16, 1991 to: PA QSO PARTY  
Nittany Amateur Radio Club  
P. O. Box 614  
State College, PA 16804-0614

PLEASE enclose 1 dollar with your entry to help defray the costs of mailing, printing, etc.  
\*\*\* PLEASE NO SASEs \*\*\* It costs 16 cents per copy to produce this information packet and will cost 28 cents per copy to produce the results. Add to this the cost of envelopes for certificates and postage for all mailings and you can see you're getting your dollars worth.

QUESTIONS concerning these rules or the PA QSO Party in general should be sent to the above address or via packet to K3CM @ W3YA.PA.USA.NA.

REQUESTS for the PA QSO Party information packet which includes the rules, an entry form, and sample log and dupe sheets should be sent to the above address and include an SASE. Persons who have participated in the party in 1986 or later will automatically receive these materials.

# THE EFFECT OF VSWR ON TRANSMITTED POWER

VSWR	VSWR (dB)	RETURN LOSS (dB)	TRANS. LOSS (dB)	VOLT. REFL. COEFF.	POWER TRANS. (%)	POWER REFL. (%)	VSWR	VSWR (dB)	RETURN LOSS (dB)	TRANS. LOSS (dB)	VOLT. REFL. COEFF.	POWER TRANS. (%)	POWER REFL. (%)
1.00	.0	∞	.000	.00	100.0	.0	1.64	4.3	12.3	.263	.24	94.1	5.9
1.01	.1	46.1	.000	.00	100.0	.0	1.66	4.4	12.1	.276	.25	93.8	6.2
1.02	.2	40.1	.000	.01	100.0	.0	1.68	4.5	11.9	.289	.25	93.6	6.4
1.03	.3	36.6	.001	.01	100.0	.0	1.70	4.6	11.7	.302	.26	93.3	6.7
1.04	.3	34.2	.002	.02	100.0	.0	1.72	4.7	11.5	.315	.26	93.0	7.0
1.05	.4	32.3	.003	.02	99.9	.1	1.74	4.8	11.4	.329	.27	92.7	7.3
1.06	.5	30.7	.004	.03	99.9	.1	1.76	4.9	11.2	.342	.28	92.4	7.6
1.07	.6	29.4	.005	.03	99.9	.1	1.78	5.0	11.0	.356	.28	92.1	7.9
1.08	.7	28.3	.006	.04	99.9	.1	1.80	5.1	10.9	.370	.29	91.8	8.2
1.09	.7	27.3	.008	.04	99.8	.2	1.82	5.2	10.7	.384	.29	91.5	8.5
1.10	.8	26.4	.010	.05	99.8	.2	1.84	5.3	10.6	.398	.30	91.3	8.7
1.11	.9	25.7	.012	.05	99.7	.3	1.86	5.4	10.4	.412	.30	91.0	9.0
1.12	1.0	24.9	.014	.06	99.7	.3	1.88	5.5	10.3	.426	.31	90.7	9.3
1.13	1.1	24.3	.016	.06	99.6	.4	1.90	5.6	10.2	.440	.31	90.4	9.6
1.14	1.1	23.7	.019	.07	99.6	.4	1.92	5.7	10.0	.454	.32	90.1	9.9
1.15	1.2	23.1	.021	.07	99.5	.5	1.94	5.8	9.9	.468	.32	89.8	10.2
1.16	1.3	22.6	.024	.07	99.5	.5	1.96	5.8	9.8	.483	.32	89.5	10.5
1.17	1.4	22.1	.027	.08	99.4	.6	1.98	5.9	9.7	.497	.33	89.2	10.8
1.18	1.4	21.7	.030	.08	99.3	.7	2.00	6.0	9.5	.512	.33	88.9	11.1
1.19	1.5	21.2	.033	.09	99.2	.8	2.50	8.0	7.4	.881	.43	81.6	18.4
1.20	1.6	20.8	.036	.09	99.2	.8	3.00	9.5	6.0	1.249	.50	75.0	25.0
1.21	1.7	20.4	.039	.10	99.1	.9	3.50	10.9	5.1	1.603	.56	69.1	30.9
1.22	1.7	20.1	.043	.10	99.0	1.0	4.00	12.0	4.4	1.938	.60	64.0	36.0
1.23	1.8	19.7	.046	.10	98.9	1.1	4.50	13.1	3.9	2.255	.64	59.5	40.5
1.24	1.9	19.4	.050	.11	98.9	1.1	5.00	14.0	3.5	2.553	.67	55.6	44.4
1.25	1.9	19.1	.054	.11	98.8	1.2	5.50	14.8	3.2	2.834	.69	52.1	47.9
1.26	2.0	18.8	.058	.12	98.7	1.3	6.00	15.6	2.9	3.100	.71	49.0	51.0
1.27	2.1	18.5	.062	.12	98.6	1.4	6.50	16.3	2.7	3.351	.73	46.2	53.8
1.28	2.1	18.2	.066	.12	98.5	1.5	7.00	16.9	2.5	3.590	.75	43.7	56.2
1.29	2.2	17.9	.070	.13	98.4	1.6	7.50	17.5	2.3	3.817	.76	41.5	58.5
1.30	2.3	17.7	.075	.13	98.3	1.7	8.00	18.1	2.2	4.033	.78	39.5	60.5
1.32	2.4	17.2	.083	.14	98.1	1.9	8.50	18.6	2.1	4.240	.79	37.7	62.3
1.34	2.5	16.8	.093	.15	97.9	2.1	9.00	19.1	1.9	4.437	.80	36.0	64.0
1.36	2.7	16.3	.102	.15	97.7	2.3	9.50	19.6	1.8	4.626	.81	34.5	65.5
1.38	2.8	15.9	.112	.16	97.5	2.5	10.00	20.0	1.7	4.807	.82	33.1	66.9
1.40	2.9	15.6	.122	.17	97.2	2.8	11.00	20.8	1.6	5.149	.83	30.6	69.4
1.42	3.0	15.2	.133	.17	97.0	3.0	12.00	21.6	1.5	5.466	.85	28.4	71.6
1.44	3.2	14.9	.144	.18	96.7	3.3	13.00	22.3	1.3	5.762	.86	26.5	73.5
1.46	3.3	14.6	.155	.19	96.5	3.5	14.00	22.9	1.2	6.040	.87	24.9	75.1
1.48	3.4	14.3	.166	.19	96.3	3.7	15.00	23.5	1.2	6.301	.88	23.4	76.6
1.50	3.5	14.0	.177	.20	96.0	4.0	16.00	24.1	1.1	6.547	.88	22.1	77.9
1.52	3.6	13.7	.189	.21	95.7	4.3	17.00	24.6	1.0	6.780	.89	21.0	79.0
1.54	3.8	13.4	.201	.21	95.5	4.5	18.00	25.1	1.0	7.002	.89	19.9	80.1
1.56	3.9	13.2	.213	.22	95.2	4.8	19.00	25.6	.9	7.212	.90	19.0	81.0
1.58	4.0	13.0	.225	.22	94.9	5.1	20.00	26.0	.9	7.413	.90	18.1	81.9
1.60	4.1	12.7	.238	.23	94.7	5.3	25.00	28.0	.7	8.299	.92	14.8	85.2
1.62	4.2	12.5	.250	.24	94.4	5.6	30.00	29.5	.6	9.035	.94	12.5	87.5

## WINNERS VS. LOSERS

Reprinted by permission from the TSRAC BNT March 1986 issue, by way of the Zero beat, March 1987. Pam Myers, NSIAK

THE WINNER--IS ALWAYS PART OF THE ANSWER  
THE LOSER--IS ALWAYS PART OF THE PROBLEM  
THE WINNER--ALWAYS HAS A PROGRAM  
THE LOSER--ALWAYS HAS AN EXCUSE  
THE WINNER SAYS--"LET MET ME DO IT FOR YOU"  
THE LOSER SAYS--"THATS NOT MY JOB"  
THE WINNER--SEES AN ANSWER FOR EVERY PROBLEM  
THE LOSER--SEES A PROBLEM IN EVERY ANSWER  
THE WINNER--SEES A GREEN NEAR EVERY SAND TRAP  
THE LOSER--SEES TWO OR THREE SAND TRAPS NEAR EVERY GREEN  
THE WINNER SAYS--"IT MAY BE DIFFICULT, BUT IT'S POSSIBLE"  
THE LOSER SAYS--"IT MAY BE POSSIBLE, BUT IT'S TOO DIFFICULT"

Think about it. Which one are you?

##

### 12 Ways to Destroy an Organization:

When your expected to do something; Don't  
Don't attend meetings, but if you do, arrive late.  
Always criticize the work of the officers, but save your comments for  
after the meeting.  
Never attempt to recruit. Let someone else do it  
Never hold an office. You don't want to be at fault if something goes  
wrong.  
Don't pay your dues, or at least pay them late.  
If you are asked to pay your dues, resign.  
Never let the group know how they can help you, so when they don't,  
resign.  
Keep looking for something wrong with the group. when you find something,  
resign.  
Never attend parties or social events sponsored by the group.  
At every opportunity, threaten to resign. And, of course, counsel your  
friends to do the same.  
Never volunteer for committees, so if you are never appointed to one, you  
can complain.  
Always reply late to group communications. Better yet, don't reply...

I hope we don't have anyone like this in our club. We have lots to be  
proud of, but think about it, is this you?(reprinted from the Zero Beat-  
May 1987, Pam Myers, NSIAK

## FEELINGS

I would like to take a moment to share my feelings with those of you who share in the hobby of Ham Radio.

Ham Radio has opened many doors for me. As a novice, I had so much fun I didn't think it could get better. Having a General Class License along with a Pilot's license, made Aeronautical Mobile HF a great experience. Acquiring an Advanced Class ticket and putting the 145.370/repeater on the Alliance Hospital took a real team effort. Later, I started seeing sync bars, then with snow in the picture, I could see KD8PE on 439.25 mhz-WOW! ATV! Let's build a repeater from scratch. We have seen stations as far away as Chicago on the Beloit, Ohio ATV Repeater.

Now, getting back to feelings; what I want to say is about the Alliance Club, not N8EWV. Every member has opened their own doors even more exciting than mine-that is what Ham Radio is all about. There is so much diversity and talent in the Alliance Club, that is why we have a Mall Show. The feeling of the Mall Show is to share our hobby with others, answer 10,000 questions, and make RF happen-Oh Yes, my feeling about the Mall Show, sharing our own open doors with each other and with the public, opening more doors.

Mall personnel called us with an available date this year, anticipating our show. They set up our tables, put the covers on them, and then took them all down for us at the close of the show-What a tremendous amount of work that saved us! The feelings from Mall Management were that they were happy to have us there for our 4th year.

March 23rd, the antenna party started to work. The point is to make the mall look like and work like a Ham Shack. N8DZA-Jim, KE8VE-Larry, and KB8LEH-Stacy, got the three HF antennas, and three 2 meter antennas up, and lots of feedline run all over the place (with barrel connectors, you can do anything).

April 5, 6, and 7th were the BIG days for the Alliance Club to shine. Shine we did!! W8WEN-Jack was tops with nostalgia-he worked for years getting ready, and I feel it was great! Did you see the YMCA group? Joe had the most fun, he told me so, and KF8JD-Bill heard him say, "Great time guys"! KE8II-Hal, along with Grant, did all they could; ATV, HF, Computer Games, etc. KB8CDA-Barbara and N8LIP-Kitty worked hard selling tickets, N8DZA-Jim ran AMTOR and more. KB8LJN-David set up a Jamboree On The Air display, KC3CL-Dave showed off Weather Fax/Satellite tracking. N8EAD-Matt made introductions to the Novice world with some morse code, and again, WB8TPG-Rich hung some impressive AARC signs. KB8LWE-Jeff, a brand new ham from Louisville teamed up with N8GIE-John and I in flying kites for an ATV demonstration. Jeff brought along his wife Tami-KB8LWC, and son, Corey-KB8LWD. My friend, Dick-KB8KKA came by too. I saw N8MAA-Jim everywhere, helping whoever he could. The Salem group did their thing-Hats off to the gang from the East! WI8T-Allen had a great fox hunt display to show direction finding. WA8WHP-Frank displayed Army Mars communications. KB8GAB-Gary ran the HF rig, and even Don-KB8ATI put in an appearance!

Lots of good feelings came through the open doors. There was more help and cooperation than I could keep up with. I'm certain that there was effort that I have failed to mention, such as the numerous visiting HAMS from surrounding areas, representing several other clubs. It is my feeling that every member did all they could to help.

Sunday evening, toward the close of the show, KE8VE came up with the idea of jumping in right away to take down the antennas and feedlines that could go home with proper owners that day. (Usually we wait a week or more, have only a few people get them down and it takes weeks to get everything "home"). It only took a short time for the antenna crew to remove an antenna from the roof as the stations inside shut down. KE8VE supervised the effort and equipment was loaded into appropriate vehicles.

YEP, I had a good time-What good feelings!!

Larry Hillier/N8EWV

\$\$ TREASURER'S NOTE \$\$

It is time to pay your 1991-1992 membership dues. Membership will secure your Zero Beat monthly publication. Don't miss out on being a member of the Alliance Amateur Radio Club-there is a summer picnic in the works following Field Day, Our Christmas Party is un-beatable, the fox hunts continue, and there are meeting programs being planned. Etc.....

Dues is:

- \$15.00 Sustaining Membership  
(Honor Roll status)
- \$10.00 Full Membership
- \$ 1.00 Family Membership  
(Licensed family members)
- \$ 5.00 Associate Membership  
(Non-licensed supporters)

Help Support the AARC!!

Dues can be sent to the club mailbox, or see treasurer, KE8KH (Patti) at the meeting. Thanks!



CALL- \_\_\_\_\_

**ALLIANCE AMATEUR RADIO CLUB**

P.O. Box 3344 (treasurer)  
Mt. Union Station  
Alliance, OH, 44601

Membership Application/ Renewal

NAME- \_\_\_\_\_ PHONE # \_\_\_\_\_

ADDRESS- \_\_\_\_\_

CITY, ST, ZIP- \_\_\_\_\_

Date of Birth- \_\_\_\_\_

Place of Employment- \_\_\_\_\_

Type of work- \_\_\_\_\_

Other organizations you are a member of:

\_\_\_\_\_

Class of license- \_\_\_\_\_ Expiration Date- \_\_\_\_\_

Year you were first licensed- \_\_\_\_\_ ARRL member? Y N

Areas of special interest, (DX'ing, ATV, RTTY, ETC.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature- \_\_\_\_\_

Date of application- \_\_\_\_\_

Dues are as follows (Pro-rated dues are for new members only):

	Renewals	May-July	Aug-Oct	Nov-Jan	Feb-Apr
Sust.	\$15.00	\$15.00	\$11.25	\$7.50	\$3.75
Full	\$10.00	\$10.00	\$7.50	\$5.00	\$2.50
Assoc.	\$5.00	\$5.00	\$3.75	\$2.50	\$1.25
Family	\$1.00	\$1.00	\$.75	\$.50	\$.25

\* social note -If you have been off the membership roster for one year or more, you are considered a new member, and are eligible for these rates.

Do not write below this line-

Dues paid--Sustaining ( )  
Full ( )  
Associate ( )  
Family ( )

\$ \_\_\_\_\_ on \_\_\_\_\_, 19 \_\_\_\_\_ signed \_\_\_\_\_  
(treasurer)

Zero Beat is published monthly by the Alliance Amateur Radio Club. All correspondence related to the Zero Beat should be addressed to:

Alliance Amateur Radio Club Inc.  
Att: Editor Zero Beat  
P.O. Box 3344  
Alliance Ohio 44601

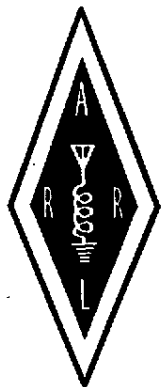
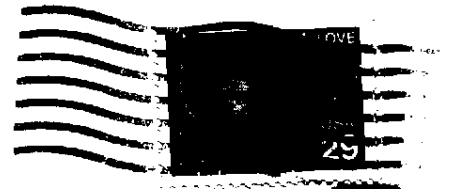
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Zero Beat Editor:  
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