



Palomar Amateur Radio Club

March 2004

March Meeting

March 3, 2004

Ham Radio & San Diego
County Animal Rescue Services

By

K3PXX Terry

Carlsbad Safety Center

PARC Repeaters

Palomar Mt. Repeaters (W6NWX)

PARC Trustee: AB6QT

*52.680- W6NWX, -0.5 MHz.

Autopatches:

146.730-, *147.075+

* 147.130+, *447.000-

PKT:

145.050s (PALMAR/W6NWX-1)

146.700- (Duplex Pkt) PALBBS/
EMG use

145.070/146.7 - (W6NWX-3/PALBBS)

ATV "OUTPUT":

1241.25 MHz. am

ATV "IN":

915 wbfm, 919 am, 2441.25 wbfm

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94 KK6KD (HARS)

*447.05- & *145.26 KK6KD (HARS)

*146.175+ N6FQ(FalbrkARC) linked to

*445.600 MHz (-)

*224.90- WD6HFR (Convair/220 ARC);

446.14- WB6FMT(123.0)Vista;

* = 107.2 Hz. PL Tone

President's Message.

Have you spent any time reading about the latest proposed changes to the amateur radio licensing process? If you have not, you will be surprised by the plans that are in the making. As commented on in this month's QST editorial page, changes are proposed to allow a three tier licensing system. In essence, if the proposed plan is carried forth, we will wind up with three licenses: Novice, General, and Extra.

Much of this is being driven by the desire to provide entry-level licensees with a means of enjoying all facets of ham radio, not just the VHF/UHF bands. The complete proposal is too lengthy to address here, but if you are not aware of the proposals, you should read about them either on line at one of the many web pages that have ham radio content, or in QST.

PARC continues to evolve. You will soon find that the many lists of activity chairpersons are getting smaller, or showing empty assignments. The Board noticed that quite a few activities no longer appear to have any following, and that in some instances activities that are important for the Club's operation have no person carrying out the needed tasks.

Would you be willing to volunteer for some of these activities? One of the services that require assistance, and which I mentioned in an earlier message, is the PARC BBS on packet. We continue to look for someone to assist in monitoring the BBS operation. If we do not gain some help, it is likely that

soon we will need to shut the BBS down. If you care to help, contact any of the Board members.

Over the past few months, I've touched on the subject of Broadband Power Line (BPL) services. This is becoming a heated matter of policy debate within the FCC, and within the many services that are concerned about possible interference. Obviously there is tremendous pressure on FCC to allow the service, as it is expected to create a significant economic development opportunity. The latest actions are summarized in the following quote from the ARRL web page:

"NEWINGTON, CT, Feb 12, 2004-- The FCC today agreed unanimously-- with one partial dissent-- to go forward with a *Notice of Proposed Rule Making (NPRM)* on the subject of Broadband over Power Line (BPL). The *NPRM* is the next step in the BPL proceeding, which began last April with a *Notice of Inquiry* that attracted more than 5100 comments--many from the amateur community. The FCC did not propose any changes in Part 15 rules governing emissions from unlicensed devices, but said it would require BPL providers to apply "adaptive" interference mitigation techniques to their systems. An ARRL delegation attended the FCC open meeting in Washington, and League President Jim Haynie, W5JBP, expressed disappointment with the FCC's decision. "

Stay tuned for developments!

73 de NN3V

Minutes

Palomar Amateur Radio Club Board of Directors

February 11, 2004

The meeting was called to order at 7:13 PM by NN3V at the home of K6KAL. Present were:

President, Charles Ristorcelli

Treasurer, Jo Ashley, KB6NMK

Membership Chairman, Al Donlevy, W6GNI

Director, Merle Risdon, KR6BT

Secretary, Dick Kalkofen, K6KAL

Director, Stephen Early, AD6VI

Treasurer's Report

Jo, KB6NMK submitted the Treasurer's Report. There was a brief discussion as to how to reformat the report to remove the 0\$ cd's. A suggestion by NN3V to create a copy of the books, and then proceed with the cleanup would provide the necessary trail for the auditors, and a clean report going forward. Dick K6KAL moved the report as distributed be accepted, and was seconded by Merle, KR6BT.

Secretary's Report

Jo KB6NMK moved that the report as distributed to the board and published in the scope be accepted, and was seconded by AL W6GNI.

Discussion Items

Dick K6KAL reported on the costs of projector rentals from local suppliers. At a daily fee averaging \$200, it was agreed that we should look further into the acquisition of a projector for the clubs use. Dick, K6KAL will locate several sources for a LCD projector and PC and make recommendations at the next board meeting.

Steve, AD6VI continued his report on his efforts to clean up the 'Committee Chairmen' list as published in the scope. He reviewed each entry, and will submit a cleaned list for review prior to the next board meeting.

Charlie NN3V will try to locate some-

one to head up the PARC BBS systems.

Anyone interested should contact Charlie NN3V.

Charlie NN3V will be sending out an email addressing the 'emergencies services nets' on PARC repeaters.

Merle, KR6BT will be the lead on the picnic this year, and is beginning his hunt for a suitable location. Anyone with a suggestion for a conveniently located site contact Merle, KR6BT.

Charlie NN3V suggested the club initiates a work party to rework and clean up the interior and repair the antenna mast mount on the PARC white trailer. Anyone interested in volunteering to be the lead.

Jo, KB6NMK reviewed the details of the 146.730 machine lockup on Feb 4th with the board.

Membership report

Al, W6GNI notes that the club now has 477 members.

Repeater Technical

There was no report at this meeting. All systems are working, and the 'continuous dtmf tone' problem of last week was T-Hunted and resolved. Watch those Microphones on 'unattended' radios, that can crawl into car seat cracks and seatbelt buckles.

Repeater Site

There was no site report at this meeting.

Next Board Meeting

The March board meeting will be held at the home of K6KAL at 7:00 PM on March 10th.

The meeting was adjourned at 8:20 PM.

Respectfully submitted,

Dick Kalkofen, K6KAL, Secretary

March Program

This month's program evolves from the recent wildfires that affected the County and Southern California. Members of local animal rescue organizations will detail the manner in which amateur radio assists the effort to rescue pets and wild life affected by disasters such as the fires. The program is organized by K3PXX (Terry)

WORK PARTY

WORK PARTY

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There will be a work party on MARCH 13. Any PARC members who care to attend, please carpool whenever possible since there is only so much room to park at the repeater site. There will be plenty of places to park at Mother's Kitchen which is fairly close to where we will be doing the work so unless you actually need to drive to the site it is best to leave your car at Mother's Kitchen and get a ride from a friend.

We will monitor 146.730 for those who need to coordinate the trip. So Please contact me ab6qt@amsat.org as soon as you can to let me know of your intentions to attend. You can plan to arrive anywhere between 10 am and noon.

The main focus of this work party it going to be to clean out the old trailer and get it ready for disposal. Any of you that have access to a dumpster would probably be of special value to this cause since we will probably be carefully separating items into 2 categories. I look forward to this gathering.

See you there. **de AB6QT.**

Club Membership

New Members Joining PARC:

KG6RGI, N6WXD, KG6TGQ, NC6X, N6TSF, and Sara Jones (No call yet)

In addition, 5 members reinstated their membership, which had lapsed some time ago.

Please check your mailing label. The e-mail address that we have in the database for you is printed there. If it is not correct, or we do not have your e-mail address, please send me an e-mail (W6GNI@amsat.org) to allow us to update your record. Should the Post Office return your SCOPE for any reason, generally an unknown reason, and we have

your e-mail address we will try to figure out why the SCOPE was returned!!

No one sent me notice that they were overlooked for participation points for bringing "Goodies" to the December meeting (party). Therefore, I guess we have all of them entered.

Al, W6GNI

Repeater Usage —

March 13, 0600-1600

RAVES will use the repeater on Saturday March 13, 2004 from 0600 to 1600 to provide communications for the Lake Hodges 50 Km trail run. Please use one of our other repeaters for chit-chat. Thanks, PARC Board

Fallbrook 10 Meter Net

When: Monday - Friday

Time: 8:00 pm local time

Where: 28.340 Mhz.

Very informal talk about antennas, radios, pets, or whatever. We always have a good time.

73, Berand - WB0YCQ

Newcomer's Corner

PARC extends a special greeting to all of our new members, especially those new to ham radio! And it doesn't take long for those new to ham radio to as-

pire for an upgrade. If you'd like help in upgrading to the General Class license, then you'll be interested in Steve's, AD6VI, class which starts on February 28th. Contact Steve (AD6VI@amsat.org) or me (KG6EQU@amsat.org) for more information.

Also, don't overlook these benefits that are a part of your membership:

- * Autopatch access (PIN registration and instructions on operations are available from Al Donlevy at the meeting or by email at W6GNI@amsat.org).

- * If you'd like a little extra advice from one of our experienced members, please contact John Earnest, KG6EQU by email at KG6EQU@amsat.org. He will match you with an elmer/mentor.

- * Don't forget our great website... www.palomararc.org. It has the schedule of Nets, info on events, and pictures of past events!

Again, welcome to PARC and congratulations on joining an organization that has been benefiting amateur radio since 1936. **73 de John, KG6EQU**

PARC Pre-Meeting Meeting

All PARC members, and any hams planning to attend the PARC meeting, are invited to congregate early in the Carlsbad area and enjoy dinner with the many meeting attendees who relax and enjoy socializing before the PARC meeting. Listen to the 146.730 MHz repeater starting around 5:00 PM, and you will hear members driving to various restaurants for dinner, and an "eye ball" with fellow hams. **A GREAT WAY TO ENJOY THE HOBBY!** See you there.

OOP'S

February 4th., 2004— T-hunt
by KB6NMK

I was just sitting down to put my grandson Toby down for his nap when the phone rang. It was AD6LP, Jim, calling to say that the repeater had been off the air all morning with a signal on the input. He and others said it was strong in Escondido. I got out my handy-talkie and sure enough, the signal was quite strong in my back yard to the south or south east. I put Toby in the car thinking it was not going to be a very long hunt and set off. I went south to Via Rancho Parkway but it was still further south of us. I decided to go to Rancho Bernardo. If it was not there I would have to go home for Toby's nap. His last words were "I'm not going to sleep". Once he did go to sleep, I was able to keep on hunting.

I found a very strong signal near the Hewlett Packard parking lot. KA6DUH, Dennis, was also out looking so I waited for him to come up the hill to where I was when K6KAL, Dick, showed up there also. Dick had a home made sniffer that was working very well.

Dennis and I went into HP and conned the Security Chief onto driving around their parking lot with us and our HT's. The signal was stronger but was still not more than a couple of

Turn off your radio when you leave

kerchunks without an antenna. With a paper clip, the signal was full scale. Even when I broke off about an inch off of the paper clip, it was still full scale. While I was saying we are close but still not there, Dick said he had his strongest signal yet and it was still strong even when his antenna was off in a Sony parking lot just a little way away. He found a green truck with a call sign on it. While Dennis went to the reception to try and locate our ham, AD6LP called him on the phone

and he came out and turned off his radio and the signal was gone.

The moral of this story is "Turn off your radio when you leave, or you will be found!" Also, in this case, the radio was not mounted causing the weight to press on the mic. switch — OOP'S, Congratulations Dick, K6KAL — a job well done.

Trouble with HAM Plates?

For those in the club that have their call signs on their vehicle license plates, a word of warning. I have old black and yellow 1964 issued call-sign license plates. I've been pulled over three times in the last two years for, "I can't find your plates in the DMV computer". Once I show the vehicle registration and proof of insurance they have gone away. Any of the ham radio plates have a special code that must first be used to find them in the DMV computer. The DMV computer does not do a pure alphanumeric search.

I purchased a special license plate frame that says "HAM RADIO, WB6IQS, Licensed 1963". So far I have not had any further problems. I understand that the code for ham radio plates is "H". If the patrol officer does not prefix the license plate check with a code "H", the DMV will never find them in their "giant brain".

John, WB6IQS

Finding and Using Repeaters — Part 2 by AC6V

HOW DO WE USE REPEATERS?

There are literally thousands of repeaters across the US (and the world). Each one can have it's own peculiarities and unique operating procedures, but there are some basics that apply to many of them. Be aware that some repeaters are very informal and just about anything goes within the FCC rules. Others are very formal — best listen in for a while. Still others have several hundred users

as well as visitors and to create order out of chaos, these repeaters are more organized as to protocol and usage. Act accordingly. Use Plain Language, Talk Like You Talk On The Telephone. You can pick up the jargon as you go along.

If you are new maybe LISTEN for a while to catch on to the swing of things. Repeaters are party lines. Lots of people use them on and off throughout the day, and the one you've selected may be busy with another conversation. So listen for a minute or two. If you are in a hurry and not sure if the repeater is in use, just give your call sign and ask - "AC6V - Is the repeater in use?" This will avoid interrupting a conversation (QSO) or an emergency. Throughout this article, I'll use my call sign in the examples...simply substitute your call for mine in the example when it's time for you to actually get on the air.

If the repeater is quiet, key your transmitter and announce, "AC6V listening", this is short hand for "AC6V listening for any call". Or "AC6V listening - anyone on frequency?" Some just announce simply "AC6V". Others give an idea of their situation - "AC6V Mobile". "AC6V Maritime Mobile". Although not as common today, "AC6V monitoring" was at one time used by control operators and in some areas may still be the case, but this seems to have given way to where monitoring and listening are now synonymous. Some letters can be confused, so Hams use phonetics as shown in Table 1.

Don't call CQ (HF Band Stuff) -- many VHFers don't savvy it and just isn't used on FM repeaters (on VHF SSB OR CW - Yes). If you insist on calling CQ on a repeater, it is not against the rules — but 16 old time hams will come back to you with the lecture "We don't use CQ on repeaters". When you un-key your transmitter, most repeaters will stay on the air for a few seconds, and many will send some kind of "beep or courtesy tone."

Then after a squelch tail, the repeater transmitter drops off the air. The beep (if so equipped) is there to remind everyone to leave a pause between transmissions in case someone wants to break in. Even if there's no beep, leave a pause.

Somebody may have just come across a

A - Alfa	G - Golf	M - Mike	S - Sierra	Y - Yankee	4 - Fower
B - Bravo	H - Hotel	N - November	T - Tango	Z - Zulu	5 - Fife
C - Charlie	I - India	O - Oscar	U - Uniform	Ø - Zay-Roh	6 - Six
D - Delta	J - Juliet	P - Papa	V - Victor	1 - Wun	7 - Seven
E - Echo	K - Kilo	Q - Quebec	W - Whiskey	2 - Too	8 - Ait
F - Foxtrot	L - Lima	R - Romeo	X - X-Ray	3 - Tree	9 - Niner

traffic accident and needs the repeater to report it. In addition the beep resets a timer. See Timers Below. Some systems use a two tone or be-bop tone as a courtesy tone and may also signal various conditions of an inter-tie system. See your repeater guidelines. Following the beep, a brief delay is heard before the repeater drops out. A bit of noise is heard between the end of a radio transmission and the reactivation of the receiver's squelch circuit. This is called the squelch tail, but note that not all repeaters incorporate a squelch tail. Below is a typical repeater-timing diagram, however various repeaters may have variations on this and the times. **ALWAYS WAIT FOR THE BEEP** so the timer can reset.

If you talk too long, a timer times out and the repeater drops off the air. Timers (sometimes called a QSO timer) are typically 1 to 3 minutes depending on the machine. To signal a timer dropout, some repeaters use a voice announcement, others use a series of short beeps, such as a triple beep. Others may use a short tail, a short beep and then dropout. Typically there may be a several second wait before the repeater can be brought back up on the air. If the offending talker or a carrier persists, the repeater will remain mute until the input signal disappears, so timeouts can be quite long.

How long do we pause after the beep? Two to three seconds after the squelch tail is long enough for others to come in. 10 to 30 seconds delay leaves everyone wondering why you disappeared or someone just tuning in listens for 10 seconds or so, hears nothing and comes in - makes a call -- the other party answers and the whole thing gets screwed up. Talking right after the beep is OK since the repeater timer has been reset, but that doesn't give much time for timid or uninformed folks to get in. Many let the repeater totally drop out and then allow another 2 seconds or so before keying up the repeater again.

When you hear the beep and no else comes in -- it is your turn to talk. To prevent noise when the repeater is not transmitting, receiver circuits use a squelch feature which silences the receiver when no signals are being received. If somebody answers, you have a contact! If no one answers, perhaps no one is on channel, but more likely they are busy, not inclined to talk, building something, soldering, etc., not ignoring you or being rude, but not responding for their own reasons. Repeating your "AC6V listening" a few times is OK, but repeating it several times is probably a waste of air space. Local repeaters across country may not care to "entertain" travelers but will usually answer questions about the area.

If you want a quick "Radio Check" to see if you are accessing the repeater adequately -- try "AC6V Radio check please" or "AC6V signal report please" will usually solicit a come back but not necessarily an extended conversation. Another way to solicit a conversation is to ask a pointed question, "AC6V - anyone on frequency tell me the PL for repeater X?" AC6V - Can some one tell me how the traffic is on I-15? But don't key up (kerchunk) with out Identifying (IDing) -- its illegal and annoying. To see if you are accessing the repeater and not soliciting a comeback, just key up and say "AC6V Testing - no response needed".

Often the tester is making an SWR measurement, checking a new installation, or deep down in the innards of the radio tweaking an adjustment, so they don't want to rag chew at the moment, so probably would appreciate no answer, otherwise they would ask for a radio check. Some repeaters have an anti-kerchunk feature, this requires audio before the machine will come up. So kerchunkers zip their fingers across the mic grooves. UGH!

Since repeaters use FM (noise free) and are channelized, it is conducive to using plain language, as you would do on a telephone. Calling CQ, using Q-signals, and

HF jargon isn't necessary although there is some jargon that is commonly used as well as a few Q-Signals.

These will be discussed later so you will recognize them. Keep in mind that some VHF/UHF users have never been on HF and are not familiar with the terms. You can talk about almost anything you want - there are few rules about the content of Amateur conversations. You can't use Ham Radio to do business, but you can talk about where you work and what you do.

It seems so easy to call work and pick up a message, tell the boss you're gonna be late, etc, but these work type messages are a no no. Remember, the FCC prohibits all business communications on Amateur Radio (except in emergencies). Unlicensed persons may participate in amateur radio communications, provided a control operator identifies at the beginning and end of transmission, and is present and continuously monitors and supervises the communication to ensure compliance with the rules.

Prime time TV language has been peppered with some "hells" and "damns," and so has language on some repeaters. Most repeaters discourage or prohibit this as sensitive folks and children may be listening. Indeed obscenities are against the FCC rules. You're not having a private conversation -- you have lots of listeners, some of them women and children. Non-Hams may be listening on scanners - lets keep an image to the public of sounding professional. Keep that in mind as you choose language and subject matter. Also until you get to know folks, controversial subjects such as religion and politics can get some nasty replies, depending on how open or closed-minded the other person is.

Be aware that some repeaters have a recorder and the audio track is recorded at all times. The voice logs are reviewed daily. Inappropriate language use or meanings will invoke a cautionary comment from the repeater trustee. Continued abuse may draw legal action. The log (files) will be used as legal evidence against the offender if required.

To be continued

Committee Chairmen

AREInfo.	-Dennis S	K7DCG@amsat.org
Attendance	-Al	W6GNI@amsat.org
ATV	-Art	KC6UQH@amsat.org
Auction	-Jim C.	NE6O@amsat.org
Badges new	-Al	W6GNI@amsat.org
Batteries	-David	KD6EBY DAT@Gerry.Palomar.caltech.edu
BBS Monitor	-Bill B	N6FMK@amsat.org
Billing:Ads/etc	-Lyell K	K6GVM@arrl.net
Contest Info	-Dennis V	N6KI@amsat.org
ControlOps.	-filled	W6NWG@amsat.org
D.Mar Fair-		
Emergency QTH's (Emergency Com. Centers)		
HarryH	-W6YOO	W6YOO@amsat.org
DennisV	-N6KI	N6KI@amsat.org
Field Day	-Charlie R	NN3V@ARRL.net
FDTech.	-John K	WB6IQS@Juno.com
Inventory	-Dennis B	KD6TUI@juno.com
New Members	-John E.	KG6EQU@amsat.org
Nets	-	
Newsletter	-Ron S	NA6RS@amsat.org
PALBBSpkt	-Bruno H	KF6QDP@amsat.org
Patch Info	-Stan R	W9FQN@amsat.org
PatchETronics	-Jerry H	WB6FMT@amsat.org
Picnic	-Paul D	NN6X@amsat.org
PowerAC/DC	-Mike P	KD6VHI@amsat.org
Programs	-Dennis B.	KD6TUI@amsat.org
Publicity	-	
QSL Cards	-Merle R	KR6BT@Juno.com
RACESinfo	-Jo A	KB6NMK@amsat.org
Red Flag	-	
Rptr Site	-Mike P	KD6VHI@amsat.org
Rptr Skeds	-	
SANDARC	-	
SellerTable	-John K	WB6IQS@Juno.com
AstSWDivDir	-	
TechSite	-Mike D	AB6QT@amsat.org
TestingVE	-Rusty M,	DuneDancer@cox.net
Training	-	W6NWG@amsat.org
TrusteeW6NWG-Mike D		AB6QT@amsat.org

(Net Managers) (see pg.12)

ARES Sun	-	
Staff Net	-David D	KC6YSO@amsat.org
ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-David D	KC6YSO@amsat.org
Hiking	-Ed	KF6DXX@Juno.com
	-Glenn P	KE6ZLY@Juno.com
MARA	-Cathy	KE6IQU W6NWG@amsat.org
Microwave	-Kerry B	
Off Road	-Jerry A	jwak6pfp@cts.com
	-Dick W	KA7AYT rwilimek@home.com
Sailors	-Paul/Rod	NN6X@amsat.org / AC6V@amsat.org
Traffic(SDCTN)-Charles		N6TEP cmiele@juno.com

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

EMAIL address for Website is **webmaster@palomararc.org**

Other addresses of interest:

Scope@palomararc.org
Board@palomararc.org
Membership@palomararc.org

Contest Coral

Mar 2 ARS Spartan Sprint
 Mar 6 ARRL Int'l DX Contest, SSB
 Mar 7 DARC 10 Mtr Digital Contest
 Mar 11 Pesky Texan Armadillo Chase
 Mar 13 RSGB Commonwealth Contest
 Mar 13 Oklahoma QSO Party
 Mar 13 North American Sprint, RTTY
 Mar 14 Wisconsin QSO Party
 Mar 20 10-10 Int'l Mobile Contest
 Mar 20 BARTG Spring RTTY Contest
 Mar 20 Virginia QSO Party
 Mar 27 CQ WW WPX Contest
 Apr 3 Missouri QSO Party
 Apr 3 QCWA QSO Party

Sorry we didn't get a Contest Corral published last month. Your contest editor was in the hospital recovering from surgery. All went well and here's the corral for March. We have a variety of contests this month. State QSO parites, DX contests, CW, SSB, and RTTY activity plus a mobile contest. Something for everyone, so enjoy. Complete rules may be found in QST, CQ, NCJ, and Worldradio magazines. CU in the contest. **73, Harry**

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858.676.3307 NN3V@amsat.org

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760.722.0251 KD6TUJ@amsat.org

Sec: Dick Kalkofen K6KAL.
760.519.0670 K6KAL@amsat.org

Treas: Jo Ashley KB6NMK
760.741.2560 KB6NMK@amsat.org

Dir#1: Merle Risdon KR6BT
760.941.0213 KR6BT@amsat.org

Dir#2: Steve Early AD6VII
619.461.2818 AD6VI@amsat.org

Repeater Site:
Mike Pennington KD6VHI
760.749-8888 KD6VHI@amsat.org

Membership:
Al Donlevy W6GNI
760.630.3096 W6GNI@amsat.org

New Member:
John Earnest KG6EQU.
858.484.8579 KG6EQU@amsat.org

Repeater Technical:
Mike Doyle AB6QT
760.742.1573 AB6QT@amsat.org

Web Pages

PARC's Home Page -
<http://www.palomararc.org>

Rod's - AC6V
<http://www.ac6v.com>

ARES Alert Publication
<http://sanarrl.org/alert.htm>

Tom's Hiker's - KF6PAZ
<http://www.fanciful.org/san-diego-hiker>

Jeff N6FRW Grace N6WPA

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Last Month's Goodie's

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Fred K6ISS
Lief KQ6HE

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KR6BT Merle KB6YHZ Art
KB6YHY Anita WA5ACE Sonny
KG6AEW Bill
N6UZH Terri & Toby & Tyler
W6GNI Al & Kathy

Treasurer \$\$\$,\$\$\$

Jo Ashley KB6NMK@amsat.org
ASSETS January 31, 2004

Cash and Bank Accounts	
CD	2,831.84
CD	2,685.48
CD	3,393.20
CD	2,836.75
Checking	3,346.34
Post Office	97.15

TOTAL ASSETS **\$15,090.76**

Pre-paid dues	7,792.00
Prop. Insurance	1,800.00

LIABILITES	\$9,592.00
EQUITY	5,498.76

TOTAL LIABILITIES & EQUITY
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(11.29) Tubes, chokes, transformers, capacitors, etc. for sale. I anticipate moving and all things must go! Please contact for a detailed inventory. Call: NI6N. Email: pat_osullivan_email@yahoo.com. Phone: (760) 940-8355."

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