

The Listening Post

Published by The Bay Area Scanner Enthusiasts, Inc.

"In God We Trust - All Others We Monitor"

January - February 1996

The doors are opening up!

by Mike Heightchew **BASE144**

For many years the Ute monitors of the world have talked about radio ID's like PAPA, SIERRA, XRAY, and WHISKEY when the airborne command posts were in the air. Now, due to a lot of hard work and monitoring by Ute listeners, the parts are now coming together, and in most cases we can tell what these ID's are used for, and that's really exciting! Here are the rules for most cases.

PAPA designators are used with the Post Attack Command and Control System (PACCE). This is a normal system.

SIERRA air to air, or air mission in the USA by SATCOMM.

XRAY ID's seem to be used when VIP's are in the air.

WHISKEY, this is the big one! These ID's are only used when something big is up, like a drill or major world event.

Now that we have the rules down, think about the doors this can open. Here are the frequencies:

PAPA
P-380 5684
P-381 5700
P-383 15044
P-382 11408

XRAY
X-201 3078
X-202 3074
X-203 3064
X-204 3060
X-205 3057
X-206 3046

X-207 Unknown
X-212 15048
X-213 18023
X-901 3144
X-902 5710
X-903 6730
X-905 11226
X-906 13219
X-907 15094
X-908 17992
X-909 23265

WHISKEY (warning nets)

W-101 5800
W-100 3032
W-102 6683
W-102 5875
W-103 6757
W-104 7475
W-105 7831
W-107 10204
W-108 12070
W-109 13247
W-110 15499
W-111 17972
W-112 18387
W-113 18623
W-114 19665
W-115 19755
W-116 20167
W-117 20407

SIERRA

S-304 4495
S-307 7330
S-308 8101
S-309 9057
S-310 11220
S-311 11494
S-312 13211
S-313 14955
S-314 15041
S-315 15962

S-390 4225
S-391 6161 Common tanker air to air comms
S-392 9027
S-393 11244

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**BASE CLUB DIRECTORS,
OFFICERS, & EDITORS**

From the Command Post

by Richard Tidd **BASE446**

Richard Tidd **BASE446**

President
5/95-4/97

Bruce Ames **BASE108**

Vice President, Travel Editor
5/95-4/96 One time term

Bob Burdick **BASE635**

Aviation Editor

John Crane **BASE426**

CFO, Amateur Editor
5/95-4/97

Manuel Castrillo **BASE111**

Secretary
5/95-4/96 One time term

Sam Dunham **BASE41**

Director
5/95-4/97 Past President

Bob Gilmore **BASE582**

Director, Disaster Preparedness Editor
5/95-4/97

Edward Griffin **BASE801**

Director, *Listening Post* Editor in Chief, Photographer
5/95-4/99

Mike Heightchew **BASE144**

Director, Military Editor
5/95-4/99

Tim Main **BASE391**

Director
5/95-4/97

Rod Smith **BASE12**

Director, Public Safety Editor
5/95-4/97

There are three vacant director positions for a one year term 5/95-4/96.

The Federal Column, Railroad Column, and Shortwave Column Editor positions are currently open.

Well, well, it's 1996 already. Time flies when you are having fun!

Our billing system for membership renewals is working well and most members renew on time. While we have encountered a few discrepancies in the system, when you consider our size some are to be expected.

Regarding **BASE** numbers, the assigned **BASE** number is primarily used for identification purposes. Having a particular **BASE** number may not have any attached meaning. **BASE** numbers are primarily assigned on a first come basis in any order the board decides. Ham radio clubs use the member call sign in conjunction with the members first name for ID. We use **BASE** numbers the same way. If a member relinquishes a number for any reason including non payment of dues, resignation, termination, request of another number, or other reasons, that **BASE** number is subject for reuse. After a number is released, a member may request their number back as long it has not been reissued and fits in the number usage plan, or by board approval. Over a year ago the board decided that numbers below 100 would have special meaning for the club. Utilizing number gaps in the system, certain number ranges would be reserved for special

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BASE CLUB CALENDAR



JANUARY	7th 8th	LARC swap meet, Los Positas College Meeting, Robert Kelty on "Information gathering"
FEBRUARY	4th 12th 24th	LARC swap meet Meeting, Glen Cohen from Scanners Unlimited Monterey swap meet
MARCH	3rd 11th	LARC swap meet Meeting, Peter Liljequist, Type Acceptance
APRIL	7th 8th	LARC swap meet Meeting, Officer Elections, Pot Luck

Doors open at 7:00 P.M. Meeting is from 7:30 to 10:00 in the Community Room at the Milpitas Police Administration Building, 1275 North Milpitas Blvd. Bring your new or used equipment to demo, talk about, sell or trade. Meetings are for members and invited guests only. Monitor 462.575 prior to the meeting for any late breaking news, or call the BBS at (408)272-BASE

Club news and events

by Richard Tidd **BASE446**

Monterey Winter Fest

This year's Monterey Winterfest is scheduled for Feb. 24th, 1996 at the Monterey Peninsula College. This is a large swap meet like Livermore and Foothill. The **BASE** club will have two tables as in the past for sale items. Their check in frequency is on the 146.97 repeater, PL 94.8. We will use GMRS simplex for club communications. Set up begins at 6am, doors open from 7am-1pm. This is a good opportunity for us to promote the club and have fun at the same time! Afterwards we go out for lunch at Grandma's restaurant for a hearty meal!(S.O.S.)

Officer Elections April 1996

Club election are coming at the April meeting. Per our bylaws, the following officer positions are up for re election. As you recall, the bylaws where amended to have multiple year terms for all positions alternating even and odd years. The members listed below where elected to a special onetime, one year term position.

Starting with the even year election in 1996, these positions will run for a two (2) year term. Nominations will start being excepted for these positions at the January meeting.

Kevin Eckley	Hayward	216
Paul C. Welz	SF	221
Ed Washwell	Los Altos	475
Richard Kashdan	SF	230
Brent Victor	SJ	229
David Watson	HMB	228
Brian Khoury	n/a	159
Francis Wong	n/a	197

Members elected April '95 for special onetime, one year terms:

Bruce Ames	vice-president (May '95-April '96) one time 1 year term
Manuel Castrillo	Secretary (May '95-April '96) one time 1 year term
Vacant	Director (May '95-April '96) one time 1 year term
Vacant	Director (May '95-April '96) one time 1 year term
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Board positions open for election for two (2) year terms:

Vice-president	(May '96-April '98)
Secretary	(May '96-April '98)
Director	(May '96-April '98)
Director	(May '96-April '98)
Director	(May '96-April '98)

New Members to be Approved for Membership at the January Meeting

Name	City	BASE #
James H. Fisher	Fairfield	214
Phillip C. Pruitt	Pittsburg	217
John C. Holbrook	SF	225
Phil Cornyn	Brisbane	227
Susan Bahns	SF	226
Jim Sinnett	Pleasant Hill	213

BASE Club Directors Wanted

As you can see from looking at the officer list, we have three vacant positions on the club's board of directors. If any member has the desire to help us run the club, I invite you to advance and be recognized. One area we need help with is the BBS. We are in need of a general BBS Sysop. The technical stuff is being done by Sam Dunham, **BASE** 41, i.e. hardware, software etc. The general Sysop would generally monitor the BBS, act as the Sysop, authorize access, and provide on line help, etc. This general Sysop would primarily interact with members and their needs on the BBS. Another area we need assistance with is membership. We need general help with the paper work. Please contact a board member if you are interested in any of the items listed.

BASE CLUB NEWSLETTER DEADLINES

Articles, submissions, and ads are due by the following dates for inclusion in the corresponding newsletter.

- March/April 1996 Due February 15, 1996
- May/June 1996 Due April 15, 1996
- July/August 1996 Due June 15, 1996
- September/October 1996 Due August 15, 1995

Alameda County frequencies and units.

by Michael E. Gruhn

BASE172

ALCO 800 MHz trunked system

866.1500
866.4250
 866.6250
 866.8000
866.9375
 867.7125
 867.7250
 867.4000
 867.6750
867.9250
868.0875
 868.2750
 868.4375
 868.6500
868.7625
 868.925
 866.0125
 866.5125
 867.0125
 867.5125

County Wide channels, used by Fire, EMS, and data channel.

National Law Calling, low power usage, simplex

Alameda Fire Unit Numbers

Pleasanton	1200
Livermore	1300
Dougherty	1400
Camp Parks	1500
CDF	1600
County	1700
Lawrence Livermore	1800
Veteran's Hospital	1900
Albany	2100
Berkeley	2200
Berkeley Lab	2300
Emeryville	2400
Oakland	2500
Alameda NAS	2600
Piedmont	2800
Oakland N.S.C.	2900

Eden	3300
San Leandro	3400
Castro Valley	3400
Fairview	3500
Hayward	3600
Union City	3700
Fremont	3800
Newark	3900
O.E.S.	3900

00	Chief
01-09	A.C.
10-19	B.C.
20-29	Admin. Off.
30-39	Fire Inspectors
40-69	Engine Co.
70-79	Trucks
80-89	Grass Patrol
90-97	Misc. Equip.
98-99	Haz-Mat Units

(Continued from page 1)

S-394 13241
 S-395 17975
 S-396 20631
 S-397 23337

Thanks to Larry Van Horn, Ute Editor for *Monitoring Times* for allowing us to print this frequency list, and helping to put together the pieces that make this story. List Copyright by Grove Enterprises, 1995

NORAD

Even after all the changes in the new Air Force, NORAD still has a big network that can be monitored. The frequencies are:

4721
 6735
 6750
 8967
 9023
 11214
 13207
 18027

As we go to press, the hot thing to monitor is the large airlift to Bosnia. This will be made up of 20,000 US troops and 3800 reservists, so look for these freqs to be active on the GHFS system.

11175
 6739
 8967
 13201

Listen for mission numbers that end with "BH". These will be the AMC missions into Bosnia. They will be using the IACO flight codes. Here's a small list that might help you get a better idea where they are going, and let you follow flights into Bosnia. Good Listening!

LPLA	Azores	Lajes Field
EGWZ	England	RAF Alconbury
EGUJ	England	Woodbridge
	England	Chicksand
EGVA	England	Fairford
EGVI	England	Greenham
EGUN	England	Mildenhall
EGUA	England	Upper Hayford
EDAB	Germany	Bitburg

EDAH	Germany	Hahn Air Base
EDAR	Germany	Ramstein
EDAF	Germany	Rhein-Main Air Base
EDAS	Germany	Sembach Air Base
EDAD	Germany	Spanghahlam
EDEB	Germany	Tomplahof
LIPA	Italy	Aviano AFB
LETO	Spain	Torrejon AFB
LRZA	Spain	Zaragoza
LTAG	Turkey	Incirlik AFB
LHAA	Hungary	Budapest(staging area for US forces in route to Bosnia)
LHBH	Hungary	Budapest(MRT)
LHCC	Hungary	Budapest(ACC)
LHPA	Hungary	Papa(Mil)
LQBI	Bosnia	Bihac
LQJL	Bosnia	Tuzla(US command is here)
LQMJ	Bosnia	Mostar
LQSA	Bosnia	Sarajevo UNPROFOR
LQSJ	Bosnia	Sarajevo(city)
LQSO	Bosnia	Sarajevo(ATS)
LQSV	Bosnia	Sarajevo(Mil)
LQTV	Bosnia	Tuzla

Bits and pieces

New information service for aviation enthusiasts
by Bruce Ames, **BASE108**, Club PAO

USA Airshow Hotline
1-(900)287-1000
\$1.99 @ minute, avg. call 2 minutes or less, touch tone phone required.

This number provides a recorded message that lets you hear updated recording on schedules for airshows, fly-in's, and open houses in your area. If you are "plane crazy", this service might be of interest to you!

Chuck Heath, **BASE671** has done many things in his life, including being a TV news anchor person with NBC in Chicago. These days Chuck works on Solar, Wind, and Water powered DC power systems. He sent a large amount of information and certainly looks like a great contact for anyone who is interested in alternative

power sources for their homes, RV's, Robert passed along another item repeater sites, or anything else. You can reach his company, SUN-tricity at P.O. Box 1159, Coulterville, CA 95311 or by calling (209)962-7012

His mountain top home at 3800 feet allows him to cover from Bakersfield to North of Sacramento with his many scanners!

Robert Brown, **BASE222** sent us a note detailing the setup used for the UN Charter signing ceremonies. This might be something worthwhile to file away for the next time an event requires communications between the SF PD and federal agencies.

UHF	VHF	description
460.350	150.275	Pic 6
460.525	150.325	Pic 7
460.550	150.225	Pic 8

The PL was 156.7, and the VHF repeaters simulcast the SF PD's UHF channels.

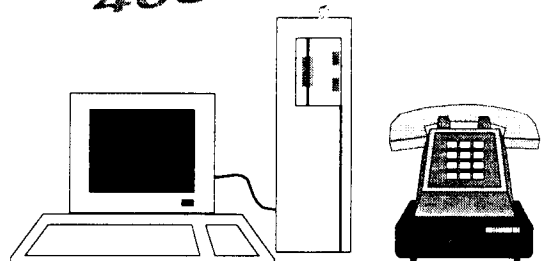
They have placed 15 laptop computers into service in the field, as the first part of a multi phase project to enhance the speed at which officers can access information.

The S/O also has it's own web page on the World Wide Web at
<http://www.amdahl.com/ext/ssc-so/>

They continue to operate the Sheriff's Online Information System(SOLIS) BBS at (408)971-2301 and (408)741-8012.

Lastly Robert included a newspaper clipping from the SF Chronicle, which ran an article from the Arizona Republic titled "Cops have company on their airwaves". It's a typical example of the "gee whiz" story where the cops complain, the news media claim ignorance, and issues are confused when illegal cellular monitoring is mentioned at the end. Oh well!

408-272-BASE
408-272-BASE



From the command post

(Continued from page 2)

purposes. For example the numbers 1 through 8 have been specifically reserved for Lifetime memberships. Other designations will come on line as needed. Members with **BASE** numbers below 100 will be able to retain their number as long they remain a member in good standing.

Do what you can, and good monitoring!

HF monitoring logs

by Ed Griffin **BASE801** © 1995

- 6730 @ 3:24 DEERSIGN wkg NIGHTWATCH barely readable, said to move to PAPA 381
- 11494 @ 21:17 NIGHTWATCH net
- 6730 @ 0400 NIGHTWATCH 01 and LEGISLATE with comms about entering net, and authentication on X903. Tried moving to 7475 W104 but came back here. Entered net at 0407, was told no other stations in the net, and W104 was secondary.
- 4395 @ 0900 Appears to a USN tracking net activity by stations using single or two letter alpha callsigns. Heard mention of "launch", "event 8" and "recovery in progress", active 'til 1200z Sunday. Signal strength continued to be fair to strong, and chatter sounded like USN with use of "interrogative" and "alligator" terms. Active over many nights, could be SAW or space launch related. Thanks to Jeff Jones for the original tip via the WAN list. Similar traffic heard on 4950 and 8187.
- 11175 @ 19:45 CAMERA MAN working NIGHTWATCH
- 11175 ADMP wkg pp via BAYONNE RADIO, barely readable
- 11175 @ 19:41 REMEDIAL checking out of the net with NIGHTWATCH via a Hickam pp.

The Boeing 777

by Thomas S. Stephany **BASE648**

On June first, 1995 United Airlines test flew its new Boeing 777 on a trip from San Francisco to San Francisco, by way of Washington State, with a brief stop in Oakland, California, and **BASE648** was there. Comfortably seated in seat 31A, situated on the left side of the aircraft, just behind the middle bulkhead, and one row behind the middle emergency exit.

This aircraft, registration number N777UA, went into scheduled service six days later, with a flight from London to New York. The stated purpose of this test flight was to give the co-pilot some additional flight time, and additional landing experience. No doubt the same applied to the captain of this flight.

This test flight departed San Francisco about ten minutes after eight in the morning. After flying to Washington State and circling the Boeing factory we landed in Oakland at eleven twenty. After a short stay on the ramp in Oakland, we departed, circled the bay area and landed at a little after noon.

I can't say if it was the aircraft or just the weather conditions, but the flight was one of the smoothest I've experienced.

This test flight contained a full complement of passengers, most of which were United Airlines employees as well as several retirees from the airline, representatives of Boeing, United Airlines, and invited guests like myself. As guests of United Airlines, we were asked to test the creature comforts located at each seat, such as lights, video, and audio entertainment controls.

The triple seven is truly fully equipped in this area. Each seat has a video screen located on the back of the seat in front of it. Each passenger therefore has his or her own screen to watch any of an array of selections. For audio, the old fashioned vacuum tube type headset has been replaced with a standard inline style plug

headset.

The video selection contains 47 channels, not all were active on this flight. Passengers have a wide selection including but not limited to CNBC inflight business, Discovery channel, National Geographic Photographer, Gillette World Sport Special, Golf in Paradise, I love Lucy, and Who's the Boss television. You also have a choice of full feature length movies. Each is independent of the other passengers, giving each passenger their own choice of what to watch. There's no center aisle screen showing everybody the same movie on this plane!

The audio selection is just as impressive. Twenty one different channels give the listener their choice of classical music, country music, soft and not so soft contemporary, progressive rock, and jazz. There is one channel favoring Johnny Mathis, one each for Billy Joel, Linda Ronstadt, Ute Lemper, Will Rodgers, Yevgeny Kissin, Whitney Houston, and Sarah McLachlan. Channel 9 hooks you up with the cockpit communication so you can eavesdrop on the pilot and air traffic control. On Air Newsweek and The United Nations Report is also available. For the non English speaking, Voices of Spain, German Scene, and French Elegance occupy three of the audio channels.

The coach section has seating arrangements nine across per row. Two on each side by the windows, and five across in the middle. What an amazing aircraft, Boeing and United have a winner here! William E. Boeing would be amazed by this airplane. Wilbur and Orville Wright would probably need to be medicated!

The big noticeable difference with the Boeing 777 is that it has only two engines, and it is the first such aircraft to be given clearance to fly over water for extended periods of time. Because this was a test flight, the normal cockpit limitations were

waived, giving passengers access to the cockpit. You can bet I didn't pass up this opportunity. The cockpit is jammed with all the switches, lights, bells, and whistles you can imagine. The instrument panel is completely electric with LED style displays. There are four seats located in the cockpit. Captain and co-pilot seats as well as two jump seats located behind the pilots.

Although it's not readily apparent or noticeable, it is my understanding that another breakthrough with the Boeing 777 is that many or most of the control cables that used to run throughout the floors or ceilings of other jumbo jets have been replaced with electrical wiring sending impulses to servos located at each control surface, thus eliminating many of the moving parts.

The Boeing 777 is just another example of great American technology and productivity. Here is an example of space age technology being put into use in the public commercial market. This aircraft is a look into what the next century holds in air travel. Many thanks to United Airlines for allowing me onboard, and many thanks to my connection which made it possible. I truly enjoyed the experience, thanks again.

**The BASE Club,
No one does it better!**

An open letter from the Editor in Chief

by Edward Griffin, **BASE801**, © 1995

To: Listening Post Column Editors, BASE Club Officers, and BASE Club members
From: Edward Griffin, Listening Post Editor in Chief
Re: Your column and article submissions are desperately needed!
Date: Tuesday, December 19th, 1995

I had planned on discussing this with the officers and membership at the December club meeting, but due to rain and storms, that meeting was canceled, and I did not have an opportunity to address the following items.

You may have noticed that the last edition of *The Listening Post* was sixteen pages instead of the usual twenty two, and it's painfully obvious that this edition is a fraction of the usual size. This is due to the lack of column and article submissions. If you didn't see a column in the last two editions of the newsletter, it was because it was not submitted for publication.

Column editors are expected to submit a column for each of the six yearly issues. **BASE** Club officers are expected to submit at least three submissions yearly. *The Listening Post* is also dependent upon club members for submissions. In the past, some folks have contributed above and beyond what they were obliged to do, and that surplus helped us during recent months when submissions were low. That surplus has been exhausted. This issue is compounded by the fact that multiple column editor positions have remained open for over a year now, despite continuing requests for members interested in writing for the newsletter to step forward. I think it's important to understand that unlike *Monitoring Times*, or *Popular Communications*, our column editors do not receive any compensation what so ever for their efforts. We don't even award free memberships for editors! The club, and particularly the newsletter depend upon people giving their time and effort, in addition to their membership dues.

I would like to thank the column editors, club officers for all of their submissions to date. Without them and those of the club members, there would be no *Listening Post*. Even if a submission from you has not appeared in an issue to date, please do not hesitate to continue to forward articles, clippings and other newsworthy items to myself and the column editors.

The Listening Post depends upon a steady supply of columns and submissions and over the past couple months, that supply has decreased. I am asking for each of the column editors and officers to create and submit the material that makes *The Listening Post* eagerly awaited by club members, and to do so on a regular, and timely basis. I am also extending this request to all of the **BASE** club members. If just 10% of our membership wrote a small article on whatever radio related topic they thought would be interesting to others, we would have more than enough to fill future issues.

It is critical that submissions are received prior to February 15th, for use in the March-April issue.

Another issue I would like to touch upon has to do with the source of submissions, and the sharing of submissions with other organizations. We should always have permission from the author of the submission for its use in *The Listening Post*. Likewise permission to share a submission with another organization should be secured from the author. If you become aware of material that was published in *The Listening Post* and subsequently appeared in another source, please bring it to the attention of the appropriate column editor, or the editor in chief. Sharing of information can be a positive thing, but credit should always be given, and permission should always be obtained.

Thanks in advance for your cooperation,

Ed Griffin, **BASE801**
Editor in Chief, *The Listening Post*
70720.3726@compuserve.com

THE LISTENING POST

THE BASE CLUB INC.
 105 Serra Way #363
 Milpitas CA 95035

Corrections: Robert Brown's **BASE** number was incorrectly printed in the freq. survey article, it should have been **BASE222**.

Listen, and you will hear!

The Last Word

by Ed Griffin, **BASE801**, *Listening Post* Editor in Chief, © 1995



Do you have any monitoring related questions you'd like to see answered in the Listening Post ?

Send your questions to the Editor via the BBS or a letter and look for answers in future newsletters.

Names will not be published if requested, so why not ask ?

I've been using this portion of the last page in the newsletter to write last minute news, or items that were not quite article material. I thought "The Last Word" made a good name for this reoccurring column.

Publishing a newsletter is still a viable means of communicating, but in 1995 we saw an incredible amount of growth in the number of persons, companies, and organizations utilizing the World Wide Web(WWW) to disseminate information electronically to interested persons worldwide. I have joined that group by creating my own web page, and it will contain timely information about radio monitoring, as well as any thing else I desire to publish. The URL is:

<http://ourworld.compuserve.com/homepages/griffined>

This web page is of my own doing, and is not connected in any way with the BASE Club, although I intend to maintain a current club calendar, sign up form, and topics of interest to both club members, and potential new members of the club. If you elect to visit my page, you are encouraged to use the option that lets you send email to me!

Ed's Top Ten threats to the monitoring hobby!<g>

- 1 Motorola Legal department
- 2 Spouses!
- 3 Jobs!
- 4 Other family members and pets.
- 5 Rat Shack("You've got questions, we've got batteries!")
- 6 Computers, they suck up money and time.
- 7 Expanding work week
- 8 Icom R1, the wideband receiver.
- 9 Trunked systems, and the salesmen that love them.
- 10 Information Super Highway, time sponge.

Of course, this is all in humor, I really love all of these things! -ed

Contacting the Listening Post

Letters to the *Listening Post* should be sent to the BASE Club address attention the Editor. All requests for information should include a SASE. Submissions from members are encouraged and the preferred format is on 3.5" IBM format disks, in a common word processor format. Submissions and letters may also be uploaded to the Club BBS using the NEWSLETTER area.

The *Listening Post* corrects all significant errors that are brought to our attention. If you believe an error has been made, please address all correspondence to the Editor.

Opinions expressed in the *Listening Post* are solely those of the author. Advertising in the *The Listening Post* does not constitute product endorsement.

THE BASE CLUB INCORPORATED IS A HOBBY CLUB AND IS NOT AFFILIATED WITH OTHER CLUBS, ORGANIZATIONS, OR CONSUMER ELECTRONIC STORES.

Want to be a topic editor ?

Please contact the Editor if you would like to be a topic editor for Shortwave, Railroads or Federal monitoring. A computer, and related knowledge is required. Submissions are always welcomed from any members.

How do I join the BASE Club ?

JOIN TODAY AND ENJOY THE MANY BENEFITS! For a one year membership (and six newsletters) send \$25.00 to the address above. Renewal occurs only after you receive six issues, no matter what part of the year you join.

The up to twenty-two page bi-monthly newsletter is included in the \$25.00 a year membership dues. The highlights include articles on: government, railroad, sports, special events, aviation news, U.S. military and equipment, new products, up-coming events and Club tours, special announcements, member contributions, member ads (as available), and much, much more.

Some of the newer features of the club include a members-only computer BBS(radio topics only) for frequencies, radio codes, round table forums, private E-mail, unlimited uploads and downloads of files, a GMRS flash network, and monthly meetings with exciting guest speakers.

The Bay Area Scanner Enthusiasts (BASE) Club Inc. is a diverse group that is committed to sharing information and improving the hobby of radio monitoring.

In the next Listening Post

Stories that include frequency lists are always welcomed. If you have radio related photos you'd like to submit, please contact the editor for more information.

Ed Griffin, BASE 801, Editor in Chief
 Send email via the BBS or to
 70720.3726@compuserve.com