

THE



DXer

DECEMBER 1984

VOL : XXVII NUMBER 12

MERRY
CHRISTMAS
NCDXC

THERE WILL NOT BE A FORMAL MEETING IN DECEMBER. ITS PARTY!!!!!! TIME

The annual club Christmas Party will be held at the ELKS CLUB in Palo Alto, on December 7th at approximately 7:30 PM. Menu will be a choice of Roast Beef or Turkey and all the trimmings. KEN, N6RO and his Dixieland Band will provide the ENTERTAINMENT. Reservation deadline, was NOVEMBER 30th. (See Nov issue of DXer). For further information contact N6RC or K6RK.

THE PREZ SEZ:

Let me take this opportunity to wish you and yours the merriest of the holiday season.

The most fitting words that can be said, is "Peace on Earth and Goodwill toward Man." Remember this includes the pile ups.

Merry Christmas & Happy New Year
Len, K6ANP



Convention Notes

by Steve Thomas, N6ST
1985 International DX Convention Chairman



The 1985 International DX Convention is scheduled for April 19 through April 21 at the Centre Plaze Holiday Inn in Fresno. There are many things yet to accomplish between now and then. So these things can happen and for us to have a successful convention again this year, I need some more help. Several good people have already volunteered to head up some of the important functions.

A few more committee heads are needed. First and most important, I thought I had a Program Chairman lined up but was mistaken. If you would like to handle this job contact me immediately.

Other committee heads that are needed are:

1. Banquet and Sunday Breakfast chairman
2. Chairman of other parties (particularly the Friday night bash and the Saturday afternoon party before the banquet)
3. Prize Chairman (an important money maker)
4. Accounting

Please call me at home at (408) 257-9209 or at work during the day at (415) 857-2980.

These people are serving in important capacities:

- Ted, KA6W - Pre-registration chairman (once I get him the programs I used to handle the job).
Steve, WC6I - On-Site Registration
Bob, K6SSJ - Publicity
Stan, W6XP - Hotel Liaison

If you would like to help any of these chairmen, contact them directly.

As in previous years we plan to have a patch commemorating the event, plus perhaps some other goodies to be decided later. I am now announcing the

DESIGN THE PATCH CONTEST

Please submit your design entries for the 1985 International DX Convention patch to Steve Thomas, N6ST, 7598 Shadowhill Lane, Cupertino, CA 95014. The deadline for entries is January 11, 1985. Designs will be judged by the Convention Committee. The Winner will be announced as soon as possible after that date and will be suitably awarded. So, get your design ideas together and send them in. I will get an artist to prepare final artwork for submission if you do not have that capability. The best design will be judged for creativity, appropriateness, attractiveness and ease of translation to an embroidered patch. (Hint: don't use small detail and don't try to put too much in the patch.)

If you want to make reservations at the Hotel now, call them directly at (209) 268-1000. Be sure to tell them it is for the "DX Clubs Convention".

MALICIOUS INTERFERENCE REPORT



This is a report to the NCDXC membership on proceedings held in U.S. District Court, San Francisco on 5 November 1984 and again on 9 November 1984 against Gary Kerr, ex-WA6JLY. Since inaccurate accounts of the result have been described on the air by other participants, this is to present the facts as they actually occurred.

Kerr was before the court on three issues:

- o A charge of criminal contempt for violating the judge's temporary injunction prohibiting Kerr from "broadcasting" until this hearing was held to determine if the injunction should be made permanent.
- o A hearing on Kerr's objection to the imposition of a \$2000 forfeiture resulting from Kerr's continuing to operate after his license had been revoked.
- o A hearing to determine if a permanent injunction against Kerr's further violation of the regulations by continuing to transmit should be handed down.

Kerr had the help of a Public Defender on the first issue and acted as his own counsel on the second issue. N6AYJ, Wm. Crowell (a licensed attorney), was present in the audience and requested the opportunity to provide legal advice to Kerr during the hearing. However, since Crowell refused to identify himself as Attorney of Record for Kerr, the judge refused to allow Crowell to act for Kerr. In refusing to accept responsibility as Attorney of Record, Crowell made sure that he assumed no professional responsibility for the outcome of Kerr's case.

Kerr's defense on Issue 1 was that he initially did not realize the judge's order meant that he could not operate under any circumstances. He maintained that his operation after the date of the Temporary Restraining Order was as a third party in the presence of a control operator. He stated that he had been advised by N6AYJ that in spite of the judge's order he could operate as a third party. KAGNEX and N6AYJ were called as witnesses and testified that they were present as control operators in the cited instances when Kerr was heard transmitting. Kerr also maintained that he had made no transmissions after October 17 at which time he had been called before Judge Spencer Williams who made it clear that his injunction meant no transmission under any circumstances.

The U.S. Attorney tried to make the case that Kerr was not allowed third party status as a result of an FCC interpretation of Part 97, that a person who has had his license revoked does



not enjoy third party privileges. This interpretation of Part 97 was based on a letter opinion from the Head of the Enforcement Division of the FCC. The judge felt that a formal ruling from the FCC was required for him to rule that Kerr was in contempt operating as a third party. Because Kerr had relied on the advice of an attorney (Crowell) the government could not establish beyond a reasonable doubt that there was a wilful violation of the court order prohibiting transmission. The judge did comment on the bad legal advice that Kerr received in this matter.

On Issue 2, Kerr again maintained that he only operated in the presence of a control operator after his license had been revoked hence he was breaking no law that justified a \$2000 forfeiture. Shortly after testimony on this issue commenced, it was necessary to adjourn the hearing because of a conflict with another scheduled case. The case was rescheduled for the morning of November 9.

At Kerr's initiation, before court convened on November 9, a meeting was held with the FCC and U.S. Attorney and an agreement was negotiated which resulted in a stipulated order which was handed down by Judge Williams when court convened. The settlement agreed to was:

- o The court issued an injunction against Kerr's operating any radio transmitter under any circumstances for a one year period. The order prohibits any and all transmissions, including third party transmissions. Kerr has no recourse to challenge the injunction. Any proven violation of this injunction would be a criminal offense would subject to a jail sentence.
- o Kerr will immediately pay a \$300 cash forfeiture in place of the contested \$2000 forfeiture.

Viewed in the broader context of discouraging malicious interference and unlicensed operation in the amateur bands, the court's action was a favorable one in that:

- o It clearly makes any operation by Kerr in the next year criminal contempt of court with an immediate jail sentence as the penalty. The Kerr case has passed from the FCC administrative and Federal civil areas to the contempt criminal area.
- o It exacts an immediate financial penalty from Kerr, the legal basis for which he cannot challenge. We learned that government procedure is to determine the capacity to pay before trying to collect. Since Kerr is unemployed the court would have had to conduct an investigation to

determine his capacity to pay which could drag on for months. Until resolved he would pay nothing. We believe that collecting \$300 immediately from Kerr is a stronger penalty than waiting to determine what he could pay after court investigation and perhaps collecting little more at some future date.

- o The failure under Part 97 language to be able to deny third party privileges to a person who has had their license revoked brings the issue urgently to the attention of the FCC. The FCC with encouragement from the ARRL will hopefully be preparing a formal ruling which will close this legal loophole.

There were a number of NCDXF and Amateur Communications Society (W6GWE/R) members in court as observers. Those of us there were satisfied that the stipulated order actually gained more than might have been gained had full hearings continued before the court. The result does demonstrate that with patient effort penalties can be imposed on those individuals that generate malicious interference and operate unlicensed. The U.S. Attorney's office and Judge Williams now understand a lot more about what has been going on unprosecuted in the San Francisco Bay area. The amateur community can expect their understanding treatment of such cases in the future. There will be additional cases prosecuted by the U.S. Attorney in the new year.

We would like to believe that this latest effort concludes the need for any further NCDXC contact with N6AYJ, Gary Kerr, and that group of Bay Area jammers. As long as they stop trying to harass the W6TI/R repeater we have no further issue with them. If they begin their tactics again, the NCDXC will use its technical and financial resources and take whatever measures are necessary, within the law, to support the FCC's efforts toward their apprehension and prosecution.

Stan Kaisel, K6UD

On 10 October 1984 the FCC cited Donald Rhoads, Cupertino, Ca, for operating a two meter transmitter without a license. Rhoads had been apprehended several years ago for operating without a license and a monetary forfeiture (fine) is outstanding against him for that violation of the Communications Act. As a result of this latest offense, criminal proceedings against Rhoads rather than the usual civil proceedings are being contemplated by the U.S. Department of Justice.

In the same raid, Rhoads' roommate K7LJ, Larry Johnson, was cited for improper control of his amateur station, since Rhoads was using K7LJ's equipment.

Rhoads has been identified in the past as the source of malicious interference, obscene language, and personal threats to individuals on the W6TI/R repeater. Rhoads and Johnson are both associates of N6AYJ, NI6G, WD6FGE, and others of the group who initiated and carried out the malicious interference and harassment campaign against the W6TI/R repeater over the last several years.

STATION OF THE MONTH

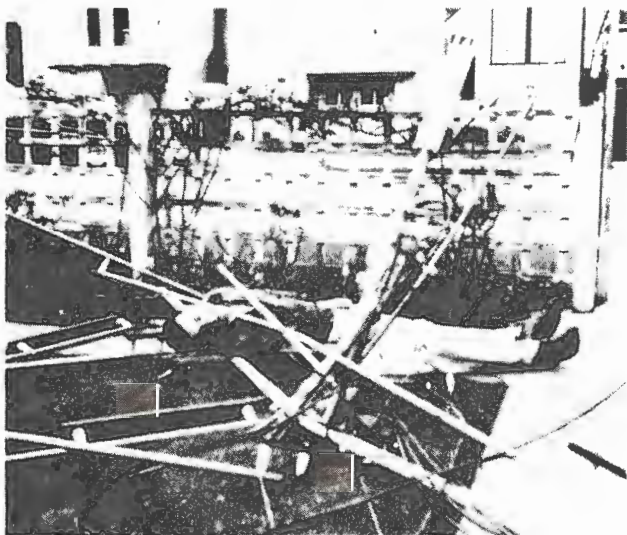
Shown here is one of the newest members of the NCDX Club and a very active amateur from the San Francisco area.

The station equipment consists of a Collins 310-B driver to a home built 4-400A final. The receiver is an NC-183-D and the antenna system consists of a Gonset 3 element beam on a 40 foot Alpar tower for 10-15-20 mtrs. Also 40 and 80 meter doublets. A Johnson Viking II is used as a standby rig.



_____ received his novice license in March of 1953 and started out with a single 6AG7 and a regenerative receiver on 80 meters. Ninety days later he passed his General class license and got on 40 meter CW. The DX bug bit in 1956 and he now has 118 countries confirmed and 141 worked.

_____ also sends along a picture titled "The Hazards of the DX Contest". "It shows what my beam looked like half way through the 1957 DX contest."



_____ works for the microwave department of the Telephone Co. and is prominent on the San Francisco TVI committee. He is also an SCM.

TRIVIA: Can you identify this current member of the NCDXC

DXer 12/84

THE EFFECT OF VSWR ON TRANSMITTED POWER

VSWR	RETURN LOSS (dB)	VSWR (dB)	VOLT REFL COEFF	XMSN LOSS (dB)	POWER XMIT (%)	POWER REFL (%)	VSWR	RETURN LOSS (dB)	VSWR (dB)	VOLT REFL COEFF	XMSN LOSS (dB)	POWER XMIT (%)	POWER REFL (%)
1.006	50.00	0.05	0.00	.0000	100.	0.00	1.31	17.45	2.35	0.13	0.08	98.20	1.80
1.01	46.06	0.09	0.00	.0001	100.	0.00	1.32	17.21	2.41	0.14	0.08	98.10	1.90
1.011	45.00	0.10	0.01	.0001	100.	0.00	1.329	17.00	2.47	0.14	0.09	98.00	2.00
1.02	40.09	0.17	0.01	.0004	99.99	0.01	1.33	16.98	2.48	0.14	0.09	97.99	2.01
1.020	40.00	0.17	0.01	.0004	99.99	0.01	1.34	16.75	2.54	0.15	0.09	97.89	2.11
1.03	36.61	0.26	0.01	.0009	99.98	0.02	1.35	16.54	2.61	0.15	0.10	97.78	2.22
1.036	35.00	0.31	0.02	.0014	99.97	0.03	1.36	16.33	2.67	0.15	0.10	97.67	2.33
1.04	34.15	0.34	0.02	.0017	99.96	0.04	1.37	16.13	2.73	0.16	0.11	97.56	2.44
1.045	33.15	0.38	0.02	.0021	99.95	0.05	1.377	16.00	2.78	0.16	0.11	97.49	2.51
1.05	32.26	0.42	0.02	.0026	99.94	0.06	1.38	15.94	2.80	0.16	0.11	97.45	2.55
1.06	30.71	0.51	0.03	.0037	99.92	0.08	1.39	15.75	2.86	0.16	0.12	97.34	2.66
1.065	30.00	0.55	0.03	.0043	99.90	0.10	1.40	15.56	2.92	0.17	0.12	97.22	2.78
1.07	29.42	0.59	0.03	.0050	99.89	0.11	1.41	15.38	2.98	0.17	0.13	97.11	2.89
1.08	28.30	0.67	0.04	.0064	99.85	0.15	1.42	15.21	3.05	0.17	0.13	96.99	3.01
1.09	27.32	0.75	0.04	.0081	99.81	0.19	1.43	15.04	3.11	0.18	0.14	96.87	3.13
1.10	26.44	0.83	0.05	.0099	99.77	0.23	1.433	15.00	3.12	0.18	0.14	96.84	3.16
1.11	25.66	0.91	0.05	.0118	99.73	0.27	1.44	14.88	3.17	0.18	0.14	96.75	3.25
1.119	25.00	0.98	0.06	.0138	99.68	0.32	1.45	14.72	3.23	0.18	0.15	96.63	3.37
1.12	24.94	0.98	0.06	.0139	99.68	0.32	1.46	14.56	3.29	0.19	0.15	96.50	3.50
1.13	24.29	1.06	0.06	.0162	99.63	0.37	1.464	14.50	3.31	0.19	0.16	96.45	3.55
1.135	24.00	1.10	0.06	.0173	99.60	0.40	1.47	14.41	3.35	0.19	0.16	96.38	3.62
1.14	23.69	1.14	0.07	.0186	99.57	0.43	1.48	14.26	3.41	0.19	0.17	96.25	3.75
1.15	23.13	1.21	0.07	.0212	99.51	0.49	1.49	14.12	3.46	0.20	0.17	96.13	3.87
1.152	23.00	1.23	0.07	.0218	99.50	0.50	1.499	14.00	3.51	0.20	0.18	96.02	3.98
1.16	22.61	1.29	0.07	.0239	99.45	0.55	1.50	13.98	3.52	0.20	0.18	96.00	4.00
1.17	22.12	1.36	0.08	.0267	99.39	0.61	1.536	13.50	3.73	0.21	0.20	95.53	4.47
1.173	22.00	1.38	0.08	.0275	99.37	0.63	1.55	13.32	3.81	0.22	0.21	95.35	4.65
1.18	21.66	1.44	0.08	.0297	99.32	0.68	1.577	13.00	3.96	0.22	0.22	94.99	5.01
1.19	21.23	1.51	0.09	.0328	99.25	0.75	1.60	12.74	4.08	0.23	0.24	94.67	5.33
1.196	21.00	1.55	0.09	.0346	99.21	0.79	1.622	12.50	4.20	0.24	0.25	94.38	5.62
1.20	20.83	1.58	0.09	.0360	99.17	0.83	1.65	12.21	4.35	0.25	0.27	93.98	6.02
1.21	20.44	1.66	0.10	.0394	99.10	0.90	1.671	12.00	4.46	0.25	0.28	93.69	6.31
1.22	20.08	1.73	0.10	.0429	99.02	0.98	1.70	11.73	4.61	0.26	0.30	93.28	6.72
1.222	20.00	1.74	0.10	.0436	99.00	1.00	1.725	11.50	4.74	0.27	0.32	92.92	7.08
1.23	19.73	1.80	0.10	.0464	98.94	1.06	1.75	11.29	4.86	0.27	0.34	92.56	7.44
1.24	19.40	1.87	0.11	.0501	98.85	1.15	1.785	11.00	5.03	0.28	0.36	92.06	7.94
1.25	19.08	1.94	0.11	.0540	98.77	1.23	1.80	10.88	5.11	0.29	0.37	91.84	8.16
1.253	19.00	1.96	0.11	.0550	98.74	1.26	1.851	10.50	5.35	0.30	0.41	91.09	8.91
1.26	18.78	2.01	0.12	.0579	98.68	1.32	1.90	10.16	5.58	0.31	0.44	90.37	9.63
1.27	18.49	2.08	0.12	.0619	98.59	1.41	1.925	10.00	5.69	0.32	0.46	90.00	10.00
1.28	18.22	2.14	0.12	.0660	98.49	1.51	2.00	9.54	6.02	0.33	0.51	88.89	11.11
1.288	18.00	2.20	0.13	.0694	98.42	1.58	2.50	7.36	7.96	0.43	0.88	81.63	18.37
1.29	17.95	2.21	0.13	.0702	98.40	1.60	3.00	6.02	9.54	0.50	1.25	75.00	25.00
1.30	17.69	2.28	0.13	.0745	98.30	1.70	3.50	5.11	10.88	0.56	1.60	69.14	30.86

The Radio Amateur's Handbook

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1984

Sixty-First Edition

OCTOBER 1984
INFORMATION UPDATE

by W. E. Bip Bachman, W6BIP, with information supplied by Bob Marchand, K6HQL, Engineering, Pacific Bell.

Telephone Interference

Because of a change in FCC rules, subscribers increasingly own their telephone instruments, leasing only the lines from the telephone company. Interference-prevention measures to the instrument are the owner's responsibility. If a fault occurs in the line, the telephone company must make the necessary repairs. Responsible instrument manufacturers should provide necessary modifications to minimize RFI.

Telephone interference may be cured by connecting a bypass capacitor (about 0.001 μ F) across the microphone unit in the telephone handset. The telephone companies have capacitors for this purpose. When such a case occurs, get in touch with the repair department of the phone company, giving the particulars. Section 500-150-100 of the Bell System Practices *Plant Series* gives detailed instructions; for the General Telephone System, refer to General System Practices *Engineering — Plant Series* Section 471-150-200. This section discusses causes and cures of telephone interference from radio signals. It points out that interference

can come from corroded connections, unterminated loops, and other sources. It correctly points out that the rf can be picked up on the drop wire coming into the house, and also on the wiring within the house, but the rf detection usually occurs inside the phone. The detection usually takes place at the varistors in the compensation networks, and/or at the receiver noise suppressor and the carbon microphone. But interference suppression should be handled two ways: Prevent the rf from getting to the phone, and prevent it from being rectified.

The telephone companies (Bell System) have two devices for this purpose. The first is a 40BA capacitor, which is installed at the service entrance protector, and the second is the 1542A inductor, which is installed at the connector block. According to the practices manual, the 40BA bypasses rf picked up on the drop wire coming into the house from the phone, and the 1542A suppresses rf picked up on the inside wiring. These are mentioned because in very stubborn cases they may be necessary. But the telephone should be modified first.

A new RF filter module SKU# 52710 (consisting of inductances) which can be plugged into the telephone jack is now sold by AT&T at the National Service Center, St. Louis, Mo., phone 800-222-3111. The filter sells for \$8.95 plus \$.58 Calif. sales tax and \$4.75 shipping and handling. They will ship one or more filters for the \$4.75 shipping and handling. (Some day they will be available at all AT&T phone sales centers.)

Compensation networks (listed below) #425J and 4010E are no longer manufactured.

Compensation network (without varistors) #4228D is available for the series 500, 700, 1500, 1600, 1700, 2500, and 2700 phones. Bell system ordering information is COI CODE 102-390-150 listed in Product Ordering and Service Guide dated Oct. 1984.

Compensation network (without varistors) #4228J is available for some series 900 phones. Bell system ordering information is COI CODE 103-390-200 listed in Product Ordering and Service Guide dated Oct. 1984.

Bell System Practice 500-150-100 has installation instructions for the compensation networks and RFI mitigation procedures.

The above information is supplied because many Bell system employees will look up their computer parts list for the #4228D/J networks and find them not listed, therefore advise you they are not available.

Since there are several different series of phones, they will be discussed separately: 500 series — These are the desk and wall phones most commonly in use. They come in several different configurations, but all use 425-series compensation network. The letter designation can be A, B, C, D, E, F, G or K, and all these networks contain varistors. The network should be replaced with a 4228D, in which the varistors are replaced by resistors. Also, 0.01- μ F disceramic capacitors should be placed across the receiver suppressor. The suppressor is a diode across the receiver terminals. The carbon microphone in the handset should be bypassed with a 0.01- μ F ceramic capacitor.

Series 1500, 1600, 1700 — These are the "Touch-Tone" phones, and the cure is similar to that for the 500 series, except that the network is a 4010B or -D, and should be replaced with a 4010E.

Trimline series — These are the "Princess" series phones. The practice manual says that these should be modified by installing bypass capacitors across all components in the set which may act as demodulators. This statement is rather vague, but evidently the telephone company is aware of a solution.

At the end of section 500-150-100 is an

ordering guide for special components and sets, as follows:

Ordering Guide

Capacitor, 40BA

Inductor, 1542A

-49 Gray, -50 Ivory

Set, Telephone, -rf Modified

Set, Telephone Hand, 220A, -rf Modified

Set, Telephone Hand, 2220B, -rf Modified

Set, Hand G, -rf Modified

Dial — (Touch-Tone dial only), -rf Modified.

The type "G" handset is the one used with the 500 and Touch-Tone series phones. Also, Mountain Bell has put out an "Addendum 500-150-100MS, Issue A, January 1971" to the practices manual, which states that items for rf modified phones should be ordered on nonstock form 3218, as follows:

(Telephone Set type)

Modified for BSP 500-150-100

for Radio Signal Suppression

TRIVIA ANSWER:

Len K6ANP

November meeting was held at Harrys Hofbrau, at the Palo Alto AirPort on 11/9/84.

The meeting was called to order by the President, Len Geraldini K6AMP at 7:15 PM. Present was V.P. Lou Beaudet K6TMB, Sec. Dick Letrich WB6WKM, and Treasurer Lyle Meek N6BLN.

The following guests were then introduced, OH4UN John Devoldere of Belgium, VK3DRN Alan Harvey of Australia, WA6TEF Ute Wingenain of San Jose, N6IFD Carol Park wife of member Ted Park K6RN, who was announced is now an Advanced Class !!! and several welcome wives of members. Pres. Len welcomed all to the meeting.

Once again a Plea was made to locate another DX editor, as Lyle (who has done such an excellent job) would like to Pass the task on.

Our main Program was Presented by Bob Thomason K6SSJ, who showed slides of his recent trip to Europe and UR-land. Bob visited many well known Hams from Russia and other countries and shared DX stories. When Bob completed his Presentation, we were then given the bonus of a slide Presentation by OH4UN John who showed us many Pictures of his home (Out here in California we might call it a ranch as it is so big and beautiful) with a real antenna farm. John is well known for all of his activities, but perhaps best known by his 80 Meter DX work and book "80 Meter DXing".

A report on the hearing of Gary Kerr, EX-WA6JIY was given by KIP Edwards W6SZH, and Stan Kiesel K6UD. A detailed report is Promised in the next DXer, but for the record, the Federal Court upheld the FCC's findings and although there was some modification to the original fines, make no mistake about it, justice was served. It is impossible to thank Stan and KIP and the other 400 club members who lent their support and information as required.

Second readings were given for Steve Mainwaring, N26Z and for Bob Wilson, NQ6X. Welcome to the worlds best DX Club fellas!!

Pres. Len reminded all about the X-Mass Dinner, an Eric W6DU asked the President if he could ask the management to allow us to not be required to start so early as many worked and had a long way to travel to get to the meetings. (Thanks Eric).

Submitted by

Dick Letrich, WB6WKM Sec.



LOGGIN HINTS: Ted W6BJH

I keep my log in differnt colors per band, color coded as it were. Of course you can use any color scheme you like. The following is my preference:

BROWN	10 Meters
PINK	15 Meters
BLUE	20 Meters
ORANGE	30 Meters
GREY	40 Meters
GREEN	80 Meters

Not only does it make for a colorful log book but it has these additional advantages:

- a. Easy identification as to what your activity has been on a per band basis. If I want to know when I stated working stations on 80m last winter I scan the log for green entries.
- b. It's great for scanning your log for stations you may have worked for the various multiband awards, such as 5BDXCC, 5BWAZ or WAE.

I have been using this method for the past sever or eight years and it has been very useful. However, I don't seem to have many brown or pink entries here lately.

IS THIS YOUR LAST DXer????????????????

We of the DXer staff have been working for the club for the past two years and have recently asked the president Len K6ANP to solicit volunteers to relieve us of that duty. Its time for another team to take the field and run with the ball. PLEASE DON'T ALLOW THE DXer to forfeit a single issue. WON'T SOMEONE VOLUNTEER!!!!!!!

VK Call Letters - WB6GFJ

A few years ago, if we worked a VK with an "N" as the first letter of their suffix, we "knew" the person was an Australian Novice. Recently, the call sign allocation was adjusted to reflect the growth of Amateur Radio. Therefore, the call sign Suffixes are now allocated according to the following:

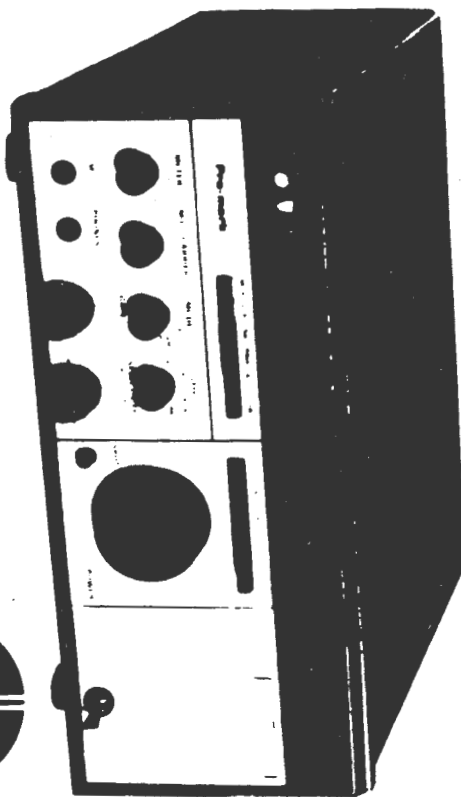
Two letters	- AA to ZZ	Full Priviledge
Three letters	- AAA to ZZZ	Licenses.
Three Letters	- KAA to KZZ	Limited, plus Novice
Three Letters	- NAA to NZZ	Novices
	VAA to VZZ	"
	FAA to FZZ	"
Three Letters	- RAA to RZZ	Repeaters and beacons
Three Letters	- ZAA to ZZZ	Limited Licenses
	YAA to YZZ	" "
	XAA to XZZ	" "

The cost of a VK license has just been raised to \$21.00

Quement offers

The Pro-Mark™ KWM-380

Special!



NOW

\$2995.00

Rockwell
International



OUR SPECIAL PRICE INCLUDES: ALL SERVICE BULLETINS
INSTALLED, INCLUDING WARC BANDS.

MANY OPTIONS ALSO AVAILABLE

CALL FOR MORE COMPLETE DETAILS
ON THIS SPECIAL OFFER!



QUEMENT ELECTRONICS



1000 SO. BASCOM AVE.

SAN JOSE

Phone 998-5900

1985 CALLBOOKS

THANK YOU NCDXC MEMBERS FOR YOUR CONTINUED SUPPORT. WE HAVE A ONE TIME SPECIAL OFFER--A PAIR OF 1985 CALLBOOKS (1 NORTH AMERICAN, 1 FOREIGN) FOR \$35 TOTAL, INCLUDES DELIVERY IN U.S.A. PLEASE ORDER BEFORE JANUARY 31, 1985. EARLY ORDERS MAY BE FILLED BEFORE CHRISTMAS.

GOOD DX FROM

JAY & JAN O'BRIEN
THE W6GO/K6HHD LIST
PO BOX 700
RIO LINDA, CA 95673-0700

916 991-2010

NORTHERN CALIFORNIA DX CLUB INC., P.O. Box 608, Menlo Park, CA 94026

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Send DXer contributions to: **N6BLN**
1469 Lupine Dr. Santa Rosa, CA 95401
(707) 523-1066

DX LADDER

Send report to: Jim Hicks, KK6X
2260 Santa Fe Dr. Santa Rosa, CA 95405

NCDXC REPEATER: W6TI/R

TRUSTEE Bob Vallio W6RGG

REPEATER COMMITTEE

CHAIRMAN: Charlie Kump W6ZYC

Input Frequency: 147.96 MHz

Output Frequency: 147.36 MHz

Suggested Simplex 147.54 MHz

NCDXC THURSDAY NIGHT NET

On W6TI/R Thursday at 8:00 PM

NET CONTROL:

DX NEWS: Phil Garrahan W6LQC

PROPAGATION: Al Lotze W6RQ

WEST LINK: GEORGE ALLAN WA6O

CONTEST NEWS: TED ALGREN KA6W

SWAP SHOP: Dick Letrich WB6WKM

QSL INFO: Jay O'Brien W6GO

NCDXC DX BULLETIN BROADCASTS

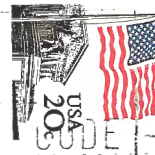
W6TI, the NCDXC Memorial Station

broadcasts DX bulletins each

Sunday at 1800 GMT or Monday at

0200 GMT on 14.002 MHz

W6TI Trustee Bob Vallio, W6RGG



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Menlo Park, CA 94026

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K6ZM Philip E Frazier
44 Toyon Terrace
Danville CA 94526

Merry Christmas