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VOL. XVII, NO. 5

ORANGE COUNTY AMATEUR RADIO CLUB

MAY 1976



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## -- 1976 CLUB OFFICERS --

PRESIDENT	MARTIN RAYMOND	WB6PEX	532-4090
VICE PRESIDENT	FRIED HEYN	WA6WZO	549-8516
TREASURER	FRANK GREGG	WB6KJS	968-1450
SECRETARY	GENE ZWEIGLE	W6SNR	995-6014
ACTIVITIES	KEN KONECHY	W6HHC	541-6249
MEMBERSHIP	KEI YAMACHIKA	W6NGO	538-8942
PUBLICITY	BOB ECKWEILER	WB6QNU	639-5074
TVI	HAROLD RICHARDS	WA6BJO	544-0083
M.A.L.	ART SHELDON	WA6LHB	832-9676
	ERNIE FUERTE	WA6GXV	838-7017

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EDITOR	BOB MALLER	WB6AJV	832-6170
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Meeting: Third Friday of each month at Mercury Savings and Loan, 1095 Irvine Blvd, Tustin, CA at 7:30 pm.

Nets: Wednesday, 7:00 pm. 21175 MHz CW, and 8:00 pm. 21.375 MHz. SSB. All stations are welcome to check in.

Breakfast: First Saturday of each month, 8:30 a.m. at Barnabys Coffee Shop, 144 S. Tustin Ave, Orange, CA.

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CALLBOOK SERVICE

The club has copies of the latest U.S. and foreign callbooks which are available at each meeting. Also you can contact Ken Konechy - W6HHC at home (541-6249) on Monday and Friday evenings between 7PM and 9PM if you need addresses. If you have more than one call for Ken to check, he'll get them all and call you back the same night. Also, you can usually catch Ken on the air after the Wednesday evening club net.

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THIS MONTH'S MEETING

"There occurred a mutiny on the day of April 28 in the year 1789 aboard His Majesty's ship Bounty as she sailed peacefully off Volcanic Islands in the South Pacific. And thus began a fantastic series of historic events which have excited the romantic and adventurous for more than one hundred and ninety years.

"After the mutiny, led by an Englishman of good birth named Fletcher Christian against an officer of modest background named William Bligh, the vessel appeared to have vanished from the earth. Not until years later - in 1808 - when another ship, the Topaz, put into remote Pitcairn Island to take on water did the world learn the fate of H.M.S. Bounty.

Want to learn more? Well come to the meeting on May 19 and hear Dr. Charles Moser W6HS, speak on the Pitcairn Island with motion pictures, local postage stamps and a display of native carvings.

Dr. Moser is the islands doctor. He has a SKED with Tom Christian, a ham on the island. Tune in to our meeting it is a terrific program.

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# THE PREZ SEZ:

As expected, the April meeting was well attended. It is gratifying to see a good turn out of special people.

In this instance, "special people" are those of us with an incurable ailment--Ham Radio. You contract this disease by having been bitten by the "Radio bug", and only rarely does one ever recover. It may go dormant for a while, but you may go into a relapse at any time; and that may be even more severe--with only air time as an antidote.

Our government has an agency to look over these souls with the title of "FCC". They catalog us as novices, technicians, generals, advanced; and, in some cases, as extras. Each is identified by letters and numbers such as W6, K6, etc. The number identifies which part of the country these affected are located. Other parts of the world are also identified.

These individuals tend to group together and babble about such things as DX, beams, TVI, nets, rigs, RTTY, ATV and QSB; and always in June they migrate to some remote area, set up tents, put all sorts of wierd pipes and wires in the air and then talk for 24 hours into contraptions to one another all over the world. They call it "Field Day"! Sun spots and propagation have a very direct effect and determines how high the fever may run. Some cannot even sleep that night. Generally speaking, they are friendly and helpful the newly afflicted, and will help in any way they can to include them in this unique group, if you have the symptoms. They group together on Wednesday nights and talk to one another into boxes with lots of knobs; and sometimes they talk by way of "pounding brass". We make the claim that we are the "oldest club in Orange County". Now we'd like to be known as the "Friendliest one".

Plan to spend Friday, May 21st, with us at the Mercury Savings & Loan.

"73's"

Martin, WB6PEX

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## VISITORS LIST FROM THE APRIL 16TH MEETING

Walt Enderle	W7IZR	Box 34 Star Rt Arizona	85611
Eric Enderle		963 Laurel Orange	92667
Ruben Martinez		4402 W. Oakfield Ave. Santa Ana	92703
Herman Heidel	WB6EFZ	Santa Ana	92706
W.J. Bendig	K6LF	443 Broadway Costa Mesa	92627
Don Barnes	WB6ZTN	8092 Slater Ave. Huntington Beach	92647
Howard Phillips	W6F00	304 South Earlham Orange	92669
Clyoe W. Bracy Sr.	WN6LGC	17650 San Simeon Fountain Valley	92706

"RF"

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## SANDI'S CORNER

Thanks to Bill (WA6FQG) for a FB program. Hope everyone has solved their noise problems and have an adequate ground system.

Would like to welcome Judy (WA6HEL) to the net. Hope to see her and the OM (who is waiting for his call) at the meeting, looking forward to having an eyeball with you two.

Roy (WB6MCU) and his XYL (Virginia) have gone to Florida to visit their daughter and family. Have a nice trip and hope you can be back for Field Day to put us on T.V.

Our long lost member Tina (WA6WV) is now working days, so hopefully we will see more of her again. You may hear her on 2 meters.

Congratulations to Fried (WA6WZO) for coming in second in the Orange section in the 42nd ARRL November Sweepstakes. 108,040 points in 24 hours, wow! And congratulations to Bob (AB6AJV) who worked seven hours and came in dead last. (Last year I worked five hours and came in second to last...sigh...)..the Editor.

Would like to wish Ozzie (WB6PEW) a very happy 80th birthday. Thanks to everyone for making his surprise party a success.

I am glad to report that Harold WA6BJO is up and around feeling much better.

Don't get a chance to see Art WA6LHB much anymore. Withibowling and moving to a new QTH, he is a very busy Ham.

Sorry to have to tell you Martin (WB6PEX) but Gracie knows about Natalie!

Terry (WB6IHZ) passes on from experience this goodie, "He who puts too much voltage on light bulb not too bright."

The other night when Ken (W6HHC) went portable six the signal was not very strong. He retuned and discovered he was using Kei's (W6NGO) four element on 20 rather than the seven element on 15 meters. I wonder if the guys had to much 802?? Even I know that seven elements are better than four. (The guys were just getting ready for field day. A little practice never hurt anybody..) ...the Editor.

We had a good turn out at the club breakfast this month - while I was there I heard from a good source that the next fishing trip will be September 11. Mark this date on your calender.

I am going to be food chairman for Field Day this year.. Any help or suggestions will be greatly appreciated.

Don't miss this month's program. Take my word for it its terrific.

BCNU,

88,

Sandi; WA6WZN

P.S. For any of you that have some problems that the club might be able to help in some way, please give the OM Fried a call.

549-8516

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The deadline for next months RF is Wednesday, June 9th.



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## DAS BLINKIN LITES

With the energy crisis upon us here is a project that may be considered as a total waste of energy! The project is a novelty flasher. What can be done with this flasher? That's up to you. The variations are infinite. Some hams have a flasher on their club badge. I have mine as the blinking nose on my "BUDMAN" pin; (whose powers are far beyond those of mortal suds). Trekkies' could find millions of uses for these devices throughout the Star Ship Enterprise. It has even been reported that in one metropolitan city an exhibitionist is wearing one under his raincoat. Guess that makes him a flasher-flasher!

There are probably as many different ways to design a flasher as there are uses for it. The design I used consists of only six components plus a 9V transistor radio battery. It is easily built, can be made small, and the parts are readily available. The heart of the flasher is a 555 timer integrated circuit; capable of driving a 200ma load in astable operation with periods from microseconds to hours; (ie: it will blink a low power light at rates to fast to see, down to to slow to care). The period and duty cycle of the 555 is set by three external components, a capacitor and two resistors;  $C$ ,  $R_a$  &  $R_b$ . See figure 1. For those interested, the equations for choosing these values are:

$$\text{Off time(output high)} \quad t_1 = 0.7(R_a + R_b)C$$

$$\text{On time(output low)} \quad t_2 = 0.7(R_b)C$$

$$\text{Total period} \quad t_1 + t_2 = 0.7(R_a + 2R_b)C$$

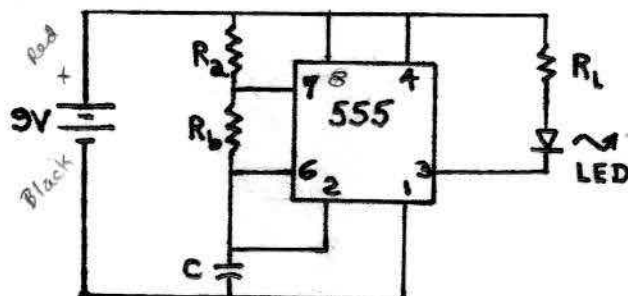


figure 1.

For those who aren't interested in these equations: If you use  $1\mu f$  for  $C$ , 270K for  $R_a$  and 560K for  $R_b$  the light will flash about once per second with a duty cycle of 40 per cent on and 60 per cent off! See you're already an expert.

Now lets get down to the light. The obvious choice for the light is an L.E.D. (light emitting diode). They come in various sizes (to fit small places) and in different colors: RED, GREEN & YELLOW (and even infared if you're adroit). When properly treated they will last indefinitely. The L.E.D. is a diode that emits light when current passes through it in the forward direction. The more current the brighter the L.E.D. lights, up to its maximum rating. Then it becomes an S.E.D. (Yes, S is for smoke). Like other diodes L.E.D.s have a characteristic forward voltage drop ( $V_f$ ). This is the voltage dropped when current is flowing through it in the forward direction.  $V_f$  remains reasonably

constant with varying current. Figure 2 gives the various values of  $V_f$  for typical L.E.D.s. Since the L.E.D. is a current device a resistor,  $R_1$ , must be placed in series to limit the current flow to a safe (and desired) value. For a red L.E.D. ( $V_f=1.6$ ) and a fresh 9V battery, a 510 ohm resistor will let 15 ma pass through the L.E.D., a bright display.

$$R = V/I \quad \frac{V_{bat} - V_f}{0.015 \text{ amps}} \quad (\text{ohms law, (Right on!)})$$

$$R = (9 - 1.6)/0.015 = 493.3 \text{ ohms}$$

= approx 510 ohms (a standard value)

The novelty flasher can be built in a very small package. I have available a printed circuit layout for a 3/4" by 3/4" board that holds all the components. (Hopefully Martin WB6PEX and I will have some boards and kits of parts available for members, (and non-members for just the price of dues higher) in a month or two. Until then, don't let the lack of a board stop you. The flasher can be laid out on a 14 pin D.I.P. IC socket making for a small package. Use 1/4 or 1/8 watt resistors and a dipped tantalum for C for a small package.

COLOR	$V_f$
RED	1.6V
GREEN	2.2V
YELLOW	1.9V

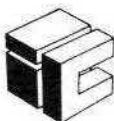
These are typical values and will vary between types figure 2.

More comments next month.

73,

Bob 'QNU

Some or all of the prizes at the meetings are provided through the courtesy of the stores listed below. Your patronage is encouraged to maintain their generosity.



(714) 997-5343

GREG ELMASIAN

**I.C. ELECTRONIC SUPPLY**

STATE OF THE ART FOR: R&D - INDUSTRY - EXPERIMENTER  
619 W. KATELLA AVE., ORANGE, CALIFORNIA 92667

931 North Euclid Avenue, Anaheim, California 92801

Walt Henry, Sr. W6ZN  
931 N. Euclid Ave.  
Anaheim, California 92801  
(714) 772-9200 / (213) 430-7997

*Henry Radio*

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## FIELD DAY UPDATE

Have you made your plans for Field Day yet? The 1976 Field Day will be held on June 26 and 27. The OCARC plans to again use the USMC helicopter base on Red Hill Blvd in Santa Ana.

We had a fantastic response to the call for team captains and volunteers. The 1976 team captains are listed below. I especially want to thank Sandy/WA6WZN for offering to organize the food.

80/10 M captain - Jack Hollander/WB6UDC - 544-5369

40 M captain - Ron Cade/WA6FIT - 897-5059

20 M captain - Ken Konechy/W6HHC - 541-6249

15 M tri-captain - Ernie Fuerte/WA6GXV - 838-7107

tri-captain - Ernie Pritchard/WN6FOW - 530-0738

E TENT tri-captain - Ernie Duebendorfer/WB6VOV - 539-6469

160 M captain - Gene Zweigle/W6SNR - 995-6014

CW contacts this year will again count double over SSB. So let's all exercise that left foot a little. Also, the same rules on the power multiplier are in effect. That is, the highest power used by any one band, sets the multiplier for all bands. In order to maximize the club score, I am requesting that no band use more than 400 Watts PEP on SSB (200 Watts on CW).

I would now like to put out the call for coax, rotors, rotor cable, and tents that could be loaned to us for Field Day, please give me a call. Also I will be registering cars (license, make, etc) for passes onto the Marine Base at the Club meeting. If you can't make the meeting, please give me a landline. Even if you aren't sure about Field Day, go ahead and register your car.

...So keep thinking about Field Day, finish your plans, sign up at the meeting.

Ken Konechy - W6HHC 541-6249

Field Day Chairman

Activities Chairman

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## WOULD YOU LIKE TO GO FISHING?

Back by popular demand!!! The OCARC is organizing another of those famous salt water fishing trips. Put a big red circle on your calendar for Saturday, September 11. We have chartered the good ship Cyperlurus, out of Dana Point, to once more take us out to where the Bonita, Baracuda, and old tires are biting.

We have room for twenty landlubbers. Friends and relatives are welcome. The cost is \$14 per person (no food or drinks included), for the all-day boat. Please contact me for reservations.

Ken Konechy - W6HHC

541-6249

Activities Chairman

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# NOVICE TESTS

The people listed below are willing to give Novice license exams.  
(Please phone first!)

NAME	ADDRESS	PHONE
Sandi Heyn	962 Cheyenne, Costa Mesa	549-8516
Terry Mathers	8132 Imperial Ave., Garden Grove	638-2565
Gene Zweigle	10536 Sylvan, Anaheim	995-6014
Frank Gregg	17310 Gum Circle, Fountain Valley	968-1450
Don Barnes	8092 Slater Ave, Huntington Beach	847-3875
Jay Hall	10491 Mast Ave, Westminster	531-8448
Bob Miles	9762 Mistletoe Ave, Fountain Valley	839-9154
Ken Konechy	2201 N. Eastwood, Santa Ana	541-6249
Ron Cade	11591 Rabaul, Cypress	897-8059
Don Klos	13562 Loretta, Tustin	832-9682
Bob Eckweiler	667 Coate, Orange	639-5074
Martin Raymond	1147 N. Hart, Orange	532-4090

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The following name was left off of the official 1976 membership roster:

W6HNI LYON, JOHN F.  
2115 C Broden, Anaheim 92802

(cut and paste accordingly)

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## CALL LETTER LICENSE PLATES

Fees for call letter license plates for radio amateurs will be raised drastically if Assembly Bill 4271 becomes law. This bill introduced by Assemblyman Wornum (D. Marin County) would result in a fee of \$25.00 for new call letter plates, plus \$10.00 for each renewal and a \$12.00 fee for transfer of such plates. Fees of other special plates would also increase.

The first step for this bill is a hearing before the Assembly Transportation Committee. Since the bill is not yet up for vote by the full Assembly, the time is not ripe for a deluge of letters to members of the Assembly.

At the moment the urgent need is for documented cases in which the amateur call letter license plates served their intended purpose, i.e., enabled local law enforcement or emergency officials to identify an amateur radio operator who subsequently provided communications assistance. Anyone who can provide such information is asked to contact ARRL Director Griggs, W6KW; Vice Director Holladay, W6EJJ; or Jon Gallo, WA6PTM, as soon as possible. Having information such as this may well be the only way that amateur plates can be exempted from this increase in fees.

from So. Cal Dx club Bulletin



"RF"

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MAY 1976

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NOTICE NOTICE ACTION NEEDED NOTICE NOTICE ACTION NEEDED

A CALIFORNIA ASSEMBLY BILL has been introduced, if passed, your call license plates will cost you \$25.00 on application and \$10.00 a year for renewal. This is BILL A B 4271. WRITE YOUR ASSEMBLYMAN AND DEMAND THAT HE USE HIS INFLUENCE TO DELETE THE AMATEURS FROM THIS BILL. If the bill passes, the increase will start in 1978. If you have call plates now or ever expect to have them in the future....this will affect you!

Amateurs are known for their good service to the public, thousands of messages are passed monthly, free of any charge.

Ted, K6LJA

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To help facilitate our annual report to the ARRL please fill out the following information and submit it to the club Secretary at the next meeting.

Name \_\_\_\_\_ Call \_\_\_\_\_

(check if applicable)    Unlicensed \_\_\_\_\_    Upgraded last year \_\_\_\_\_  
                              Extra class \_\_\_\_\_    Advanced class \_\_\_\_\_  
                              General \_\_\_\_\_    Conditional \_\_\_\_\_  
                              Technician \_\_\_\_\_    Novice \_\_\_\_\_

<u>Activity:</u>	<u>Below 30 MHZ</u>	<u>Above 30 MHZ</u>
SSB	_____	_____
FM	_____	_____
AM	_____	_____
CW	_____	_____
RTTY	_____	_____
SSTV	_____	_____

(Yes or No)            ARRL member? \_\_\_\_\_    AREC member? \_\_\_\_\_  
                              RACES member? \_\_\_\_\_    Mobile? \_\_\_\_\_  
Are you available as a volunteer examiner? \_\_\_\_\_  
Do you have hand-carried portable equipment? \_\_\_\_\_

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MEETING MINUTES: April 16, 1976

7:42 Martin WB6PEX led flag salute, meeting called to order

Roll call of officers, WA6LHB not present

Previous meeting minutes approved as published in the "RF"

Fried WA6WZO presented a background on the speaker and introduced him to the membership.

Bill Nelson WA6FQG gave a superb presentation on RFI and noise problems. His expertise on grounding systems and methods of isolating RFI/noise sources generated considerable interest among members.

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MEETING MINUTES: APRIL 16, 1976 (continued)

Coffee and donut break

Guests introduced

Announcements: Field day sign-up sheets available. Posted on wall for those interested in operating. Request for anyone interested in coordinating food purchase and planning for field day.

Old Business: None

New Business: WB6QNU, W6NGO, W6HHC, WB6PEX appointed to generator committee to get it operable and make report at next meeting.

Mr. RF - tickets awarded

Raffle held

9:50 Meeting adjourned, 55 members and guests attended

Submitted by: Gene Zweigle, W6SNR

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MINUTES OF BOARD MEETING: April 20, 1976

8:00 Meeting commenced, minutes of previous board meeting reviewed for items needing attention.

Bob WB6QNU will promote project for blinker lights and provide an article in RF. Martin WB6PEX will etch the boards.

It was suggested that badges and decals be promoted in which Frank WB6KJS takes orders at break time.

It was proposed that a post card mailing be sent to past members non-paid up, to remit their dues and to return to our activities.

Fried WA6WZO suggests follow-up-letter to visitors from the club president in order to encourage membership. Also we should obtain prior to the break some background information of visitors which could be used in their introduction and provide a more welcome personal touch. Also Fried was appointed as "help committeman" in which any questions regarding projects, club information, or any of a nuts and bolts miscellaneous nature could be answered by him.

Bob WB6QNU has suggested that our meeting be open and geared for the public through newspaper and radio media, that a good general meeting open toward introduction to amateur radio and the services we provide be presented to promote better understanding and interest. Further, we should utilize colleges and high schools as a new recruiting source. This will be initialized by first sending the "RF" and putting them on the mailing list.

Discussion on selling club owned tower was presented and it was deemed economically worth while to keep it.

FIELD DAY

1. Ken W6HHC will originate traffic
2. We shouldn't operate greater than 400 watts input and signs should be posted on rigs.

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MINUTES OF BOARD MEETING: April 20, 1976 (continued)

3. Request members volunteer tents and campers and rent tents if necessary.
4. Frank presented present bank balance as \$240.37, in consideration of the bank balance Ken W6HHC recommends the following field day budget be presented to the membership:

85.00	Food
60.00	Tents
<u>15.00</u>	Misc.

Total 160.00

5. Los Alamitos Air Base and a High School field day site alternative in case our present request is denied.
  6. We will encourage at the next meeting any innovations that could be used for a manual means of generating power to provide bonus points and fun.
  7. Sandi WA6WZN will coordinate food purchase and will do some initial pricing prior to next meeting. Club will furnish breakfast and supper. Due to budget restrictions members will bring their own drinks.
  8. Bob WB6QNU will hold a meeting on getting the generator ready for field day.
  9. We will try to get ARRL information on field day regulations prior to next meeting.
  10. Gene W6SNR will collect data from membership to provide ARRL anual membership report.
  11. There will be another board meeting prior to field day .
- 10:37 Board meeting adjourned, en tn timer Frank es XYL for meeting place and hospitality.

Submitted by: Gene Zweigle, W6SNR

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VISITORS LIST FROM THE APRIL 16TH Meeting (continued)

Jim Keller	WB6YXY	210 Avenida Malaga Anaheim	92807
Bob Miles	WA6LLW	9762 Mistletoe Fountain Valley	92708
Santo LaCagnina	W6WBP	8332 Kingfisher Huntington Beach	19646
Paul Black	W6QOK	13361 Prospect Ave. Santa Ana	92705
Lee Osborne	WA7WMV	4440 E. Sycamore, Orange	92669
Christine Zweigle		10536 Sylvan St. Anaheim	92804

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FOR SALE CORNER . . .

Wanted: High-power linear amplifier, 80M through 10M.  
Contact Howard, W6F00, 714-632-0545, after 6:30 PM.

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Heath Seneca 682 M VHF-1.      National receiver 80-2 M.  
Shure microphone      NC-155 with matching speaker  
6 & 2 M Cush craft Beam antenna  
Dow-Key coaxial relay      CDE automatic rotator  
2 - Heath 6 M transceivers HW-29A with mobile supply & ant.  
All above items in very good condition.

2 Knight C-11 CB transceivers receive but not transmit.

Contact Donald O'Connor: Home 714-892-1720,  
Office 213-834-1146

ORANGE COUNTY AMATEUR RADIO CLUB, INC.  
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ORANGE, CALIFORNIA 92668

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FIRST CLASS MAIL !!!

DATED MATERIAL !!!