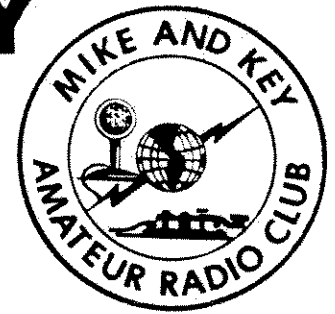


K7LED RELAY



The K7LED RELAY is the Official Publication of the MIKE and KEY AMATEUR RADIO CLUB, P.O. Box 2121, Kirkland, WA 98083-2121. The club meets the third Saturday of each month at 9:30 AM in "The Good Neighbor Center", 305 S. 43rd St., Renton, WA. All "HAM'S" invited. The Mike & Key Net meets each Monday evening at 1930 hrs on 224.12MHz. Your checkin is welcome.

AN ARRL AFFILIATED CLUB LOCATED NEAR SEATTLE, WASHINGTON.

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NUMBER 6

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19415 SE 21st St.
 Issaquah, Wa 98027

REPEATER FREQUENCY
 52.05 - 53.05
 146.22 - 146.62
 224.12



First Class

BOARD MEETING

FIRST TUESDAY
 OF EACH MONTH

CLUB MEETS:

18 JUNE 1988

UGN CENTER

RENTON 10:00

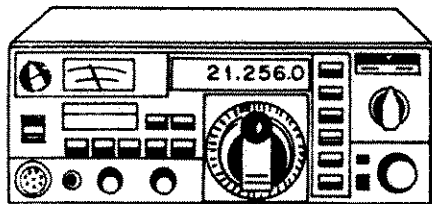
BREAKFAST @730

@ MITZEL'S

KENT

HEDBERG, PETE K7WTD
 20904 NE 77TH ST
 REDMOND
 WA 98053

COFFEE AND DONUTS WILL BE READY AT 9:30



FROM THE PREZ.....

Field Day 1988 is upon us. If you never experienced a MIKE & KEY field day event, you are really missing a great time. The sights and sounds of this event are ones to behold and the effort shows all of us what amateure radio is all about. Fellowship and friendship are of the first order. The sight of Fort Flagler is the best anywhere where the good weather is an added attraction.

On Friday everyone pulls together to erect the antennas, then in the evening we attend a clam feed/potluck dinner. When Saturday comes it's time to go to work. Generators are humming and radios come to life with sounds of white noise and voices. Then -- precisely at noon it's heard through hour two-meter radio, the call from the Field Day Manager -- "COMMENCE FIELD DAY 1988"!!!!!! - From then on it's the continual sounds of voices calling into the night and the next morning "CQ CQ CQ this is K7LED -- K7 Light Emitting Diode calling Field Day"!!

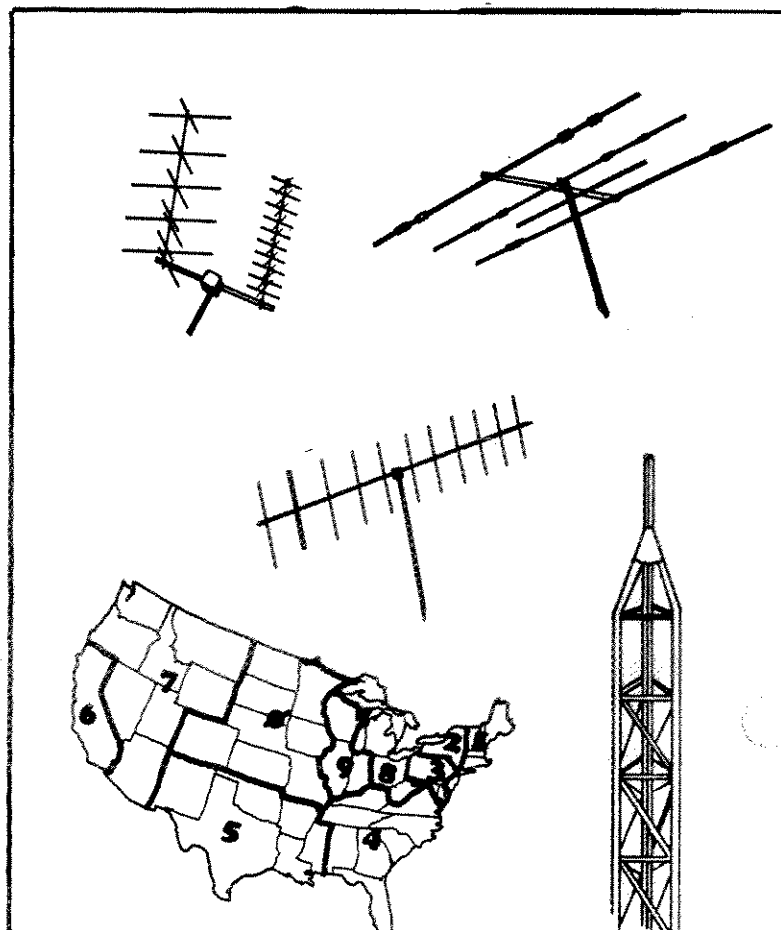
As the sun sets, we all look into the campfire and reflect of efforts past. Talk of band conditions, John's chilli, contact rates, and other items of interest.

Into the night we go. It's your turn to sit as the operator. Thoughts of how you are going to do all of this seem to settle in quickly and the excitement builds. Anticipation is your friend and you wonder what kind of contact rate you can attain. NOW!! It's your turn.--Excitement grabs you and you are on your way. Soon you have settled in and the rush of contacts begins to feel comfortable. It's time to fuel the generator and look around you to remember that this is all really happening at once. You log all your calls into the compu-

ter and find you have done real well. But, no time to slack now as the calls keep on coming. Then, your relief is there and you feel like it was such a short time. Can't I stay just a little longer: you ask yourself. But times up, and as you move away from the station, you think back and are ready to go again and enjoy the competition.

Sunday comes and as noon approaches you try to make that last contact. Then, IT ENDS!!! You stop transmitting as the twenty-four hour period has expired and Field Day 1988 is history. Soon, the generators silence and a quiet calm fills the air. All of the antennas disappear and we police the area one final time to make sure nature doesn't know we were there. Some head for the ferry home and others stay over until Monday and drive back in a lazy fashion. But all tell of the great things that have happened in the last couple of days.

DO YOU WANT TO MISS THIS????? --
SEE YOU THERE 73's Rick NU7Z



MIKE AND KEY AMATEUR RADIO CLUB MEETING
May 21, 1988

1. The meeting called to order at 10:00 a.m. by NU7Z
2. Pledge
3. The time was turned over to N7NW for part of the the program. A field day demonstration and discussion was presented by WA7UVJ and KA7QHG.
4. Officer's Reports:

Vice President: WB7TBR talked about the questionnaire in the Relay. Please fill out and return.

New certificates were handed out by WB7TBR. Applicants for membership were presented and were voted in as members of the club. Voted in were KB7ERE, WB9JZL, WA7YFH, KB7ERF, and WA7FUS. Welcome!

WA7EBH gave the treasurer's report.

N7NW reported on upcoming events. They included Field Day, the June program which will be a field day wrapup, and the picnic in August. He reported that jackets will be here by the June meeting. A video on the Dayton Hamfest was to be presented at the end of the meeting.

5. NU7Z welcomed K7PHZ back after having surgery. He also reminded the club members that kids can be involved in this club, it is not just an adult organization. The theme for the year is "Let's get involved". He also reminded the club members about the food drive.

6. Committee Reports:

ATV: W7SRZ reported on upcoming meetings and activities.

Repeater: KB7ZS reported that the new antenna is in town and will be put up soon.

Public Service: K6DOW reported on upcoming activities.

7. New Business:

W7JIE outlined briefly some proposed changes to Amateur Radio rules published April 13 by the FCC.

8. The time was turned over to KB7ZS and N7NW for the field day program. The band chairs were identified. There will be a clam feed on Friday night of Field Day. People can stay Friday, Saturday, and Sunday at no extra cost. We will start setting up at noon on Friday. the contest will be from noon Saturday to noon Sunday.
9. The raffle was conducted by N7NW.
10. The meeting was adjourned at 12:03 p.m. The Dayton video was presented for those interested.

Submitted by N7JPN.

INTERESTED IN STATISTICS??

Year	New Members
1983	10
1984	6
1985	7
1986	7
1987	51
1988 (May)	18

Current (May) membership = 138

Exam Synopsis

- South End - Maple Valley Wireless
(Monthly Testing)
- Bellingham - Mount Baker ARC
3rd Friday monthly
- North Seattle - N. Seattle ARC
1st Sat. monthly
- South Seattle - Sea-Tac Repeater
2nd Sat. monthly
- Everett - No sponsoring group
2nd Sat. monthly
- South Seattle - Mike & Key ARC
3rd Sat. monthly
- Port Orchard - North Kitsap ARC
4th Saturday monthly

Also there are exam sessions in Yakima, Montesano, Moses lake, Wenatchee, Puyallup, and Lacey. However, these sessions are not regular but contact phone numbers are available upon request.

AUDIO FILTER - SUPERSCAF

Once in a while a construction article comes along that sounds like fun to build. The SuperSCAF audio filter in April 1986 QST sounded right up my alley, but there never seemed enough time. When the review of the commercial unit came out in CQ magazine last fall, it still sounded like a good piece of equipment but the time for building was never there.

The SCAF (switched capacitor audio filter) uses chips that 'digitally' process the analog audio signal coming out of your rig. It does this by storing small charges on capacitors and moving them through a filtering process much too complicated to discuss here. (Especially since I'm no expert) One chip is a high pass filter and the other is a low pass filter. Common sense tells you by combining the two you can get a pretty neat bandpass filter. This filter has the advantage of being digitally controlled. By a selection of switches you select the bandpass width and frequency response.

How does it work? Well after building one I am impressed with it's operation. Using switches to choose your filtering takes a little getting used to. However, after a couple hours of playing around, the brain starts picking it up. Bandpasses of 100KHz or less are possible with the SCAF. This is usually enough to eliminate the most persistent interference on CW. Even on voice, (yes I listened to some Donald Duck signals) it was possible to tailor the listening environment for some improvement. Careful adjustment has helped me in my fight with the 'woodpecker' too.

Interested in building a SCAF yourself? Feel free to give mine a try for an evening or two. It was really quite easy to wire wrap and looks impressive with all those switches. (I didn't use thumbwheels) Not only that, it works good to! For further info, try QST, April/86 or CQ Nov/87. For more info on Switched Capacitors see QST, Mar/84.

-LUIJ

Monthly VE Testing Report

If interested in helping out giving VE Testing, please see Jim, K7ND or Mike, WA7UUIJ.

Date: 05/21/88 Loc: Renton, WA

<u>Element</u>	<u>Pass</u>	<u>Fail</u>	<u>Tot</u>
1A (5wpm)	04	01	05
1B (13wpm)	02	09	11
1C (20wpm)	01	05	06
2 (Novice)	03	01	04
3A (Tech)	08	01	09
3B (Gen)	06	03	09
4A (Advan)	04	00	04
4B (Extra)	03	01	04
Totals	<u>31</u>	<u>21</u>	<u>52</u>

Pass Percentage

1A (5wpm)	80%
1B (13wpm)	18%
1C (20wpm)	17%
2 (Novice)	75%
3A (Tech)	89%
3B (Gen)	67%
4A (Advan)	100%
4B (Extra)	75%
	<u>60% Total</u>

Total Upgrades: 14
 Total Failures: 17
 Total Applicants: 31
 Percent Upgrade: 45%

It is better to ask some of the questions than to know all the answers.
 James Thurber

MIKE & KEYER BOARDS

Finally I have a good set of "KEYER" boards, it looked pretty dismal there for a while. The first bunch that I got had some holes that were too small, so, there wasn't anything that could be done so another set was made with the right size holes. To say the least the parts now fit. All is not lost, as I can recover from the mistake.

To make this brief, I will have the boards and parts at the June Club meeting. The board will cost \$18.00. The basic parts kit will range from \$64.00 up. I will adjust the price according to what you want. WA7EKH

Think wrongly, if you please, but
in all cases think for yourself.
Gotthold Lessing

FCC REWORKS PART 97. A BRIEF REVIEW
OF WHAT MAY HAPPEN.

ON APR. 13, 1988 FCC RELEASED A
NOTICE OF PROPOSED RULE MAKING.
IT PROPOSED TO REORGANIZE PART 97,
SIMPLIFY, CLARIFY, AND DELETE SOME
PARTS. THE W5YI NEWS REPORT OF
MAY 1, CONTAINED A LOT OF INFOR-
MATION. IT IS DIFFICULT TO PUT IT
ALL IN THE M&K RELAY. THE NPRM
WAS 37 TYPESET PAGES LONG! BUT
IN GENERAL HERE IS WHAT THEY SAID.
IF YOU WANT MORE INFO COPIES OF
THE NPRM ARE AVAILABLE AT THE CLUB
MEETING (MAY 18).

YOU MIGHT BE ABLE TO OPERATE
A HAM RIG ON AN AIRCRAFT IF YOU
CLEARANCE FROM FAA!! YOU GOTTA
GET AN OK IF YOU OPERATE NEAR AN
FCC FACILITY (BELLEVUE, FERNDAL, E,
PORTLAND, ETC.) PORTABLE AND
FIXED STATION OPERATION IS CHANGED.
PORTABLE/MOBILE OPERATION WILL BE
DELETED.

ONLY 2 MODES OF EMISSION WILL
APPLY TO HAM RADIO INSTEAD OF THE
NEARLY 1300 LISTED BY ITU.

FCC CAN CALL FOR AND INSPECT
YOUR STATION!! MEBBE YOU GOTTA
THINK ABOUT KEEPING A LOG!!

THEY DEFINE "SWAP NETS" BETTER
AND LAY OUT THE RULES ON PUBLIC
SERVICE ACTIVITIES, BROADCASTING,
(NEWS GATHERING). "QUIET HOURS"
ARE DEFINED. AND WOE IS THE GUY
WHO DAMAGES SOMEONES GEAR!!

TECHNICAL STANDARDS ARE LAID
OUT INCLUDING SPREAD SPECTRUM
AND PACKET OPERATION.

SUBPART F CONTAINS THE REQ-
UIREMENTS FOR VE AND VEC OPERATION.
A GOOD GLOSSARY OF TERMS AND A
SUMMARY OF FREQUENCY SHARING
REQUIREMENTS ARE STATED.

IF YOU HAVE ANY INTEREST IN
HAM RADIO, HOW IT WILL OPERATE,
AND WHO CAN DO WHAT TO WHOM, I
STRONGLY URGE YOU TO GET A COPY
OF THE NPRM, READ IT AND MAKE
YOUR CONSTRUCTIVE COMMENTS TO
THE FCC. MUST BE MADE TO FCC
BY 31 AUGUST 1988 TO BE PART
OF THE PROCESS. DON'T WAIT AND
DON'T LET SOMEONE ELSE DO YOUR
JOB. IF YOU DON'T WRITE YOU
HAVE NO COMPLAINT ABOUT THE
REWRITE.

de W7JIE.

A.R.E.S. MAY REPORT

The month of May was the setting
for several interesting exercises
for the few members that could take
a work day off. On the 10th a
demonstration net was set up for
the benefit of the board of NW
Hospital, who were meeting at 0800
that morning. A staff member
physician-ham set up a portable rig
at the board meeting and with a net
control station in Burien, made
contact with 10 other hospitals all
the way from Olympia to Anacortes.
Contacts were made using the 146.92
repeater. At the board meeting, the
mic was passed to a board member
who made a guest transmission, and
seemed pleased with the results.

Exercise Triple Team V was
conducted on the 24th starting at
0720 and terminating at 1458. Four
bus loads of simulated casualties
were brought from Madigan to Boeing
Field where about 20 in each bus
were moulaged and sent to 8
different hospitals for simulated
treatment. ARES members were
assigned to each bus, each of 8
hospitals, the OES van at Boeing
Field, and at the OEM in the King
County Court House (Net
control). Some shortcomings were
noted in the use of 2 meter simplex
operations and in the shadow of the
145.11 SAR repeater. From the
viewpoint of the net control
station (N7DIP), with the HEAR
radio on one side and the County on
the other, Amateur Radio held its
own and many times surpassed the
speed and capabilities of the
public systems. The hospitals
without fixed equipment were
impressed with our capabilities and
hopefully nudged toward early
installation of 2 meter ham rigs,
or at least a roof top antenna and
a coax feed line. Hospital
buildings seem to be excellent rf
containers from inside generated
signals.

No emergency callouts were logged
for King County in May.

de Paul N7DIP

The less men think, the more they
talk.

CYCLE 22

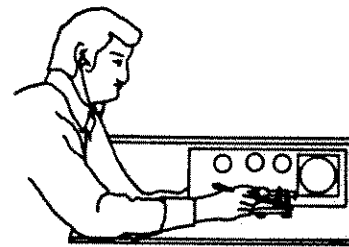
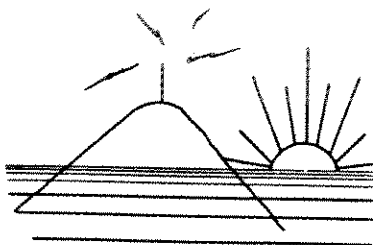
It's kind of funny. For the past two years I have been teaching radio classes, and telling students about the fantastic things that occur when the sunspot cycle peaks. Yet, I have never actually experienced such a peak even though I've been a ham for 15 years. I kick myself every time I think about how I missed the last one in 1979, due to INACTIVITY!

Well, I'm not going to miss Cycle 22 and I hope you don't either. Ever since last Fall, the HF bands have really been warming up. The 20 and 15 meter bands are swarming with Europeans, Asians, and the South Pacific. This last weekend, I heard an African for the first time. (I didn't work him, but it's something to hope for.) The best part is, you don't have to get up when the rest of the house is sleeping or stay home from work. These bands are open during our early and late evening hours, and stay open sometimes all night long.

In QST, (June) a quote was made from the director of NOAA. This prominent solar physicist said that Cycle 22 may peak as early as the end of 1988 and may be the most intense ever recorded, including the fantastic Cycle 19 of the late 1950's. Now I was still in diapers then, but I still hear about DXing exploits from that period. I used to feel jealous that such conditions may never happen again. Well, maybe our chance has come.

So, dust off that rig and fire up on the HF bands. I don't care if you use CW, voice, or whatever; but but if you miss Cycle 22, you will may never have such a chance during your's or my lifetime again.

Mike -uvj



MIKE & KEYER

As the PCB for the Mike & Keyer gets close to completion, some decisions are needed from those who wish to build one. I have previously stated that I am willing to provide a free programmed PROM to each club member wanting to build a keyer and that offer stands. However, there are three versions available and you need to tell me which you prefer.

- 1) UHF/VHF version - cycles in one of 4 loops. These loops follow the standards used in such activities as meteor scatter or moonbounce.
- 2) HF version - has the ability to run continuously with 4 programmable pause options between messages. These pauses run from 2-8 seconds in 2 second increments. This version is useful for DXing, contests, and calling CQ.

(Both versions 1 & 2 require the keyer be built with LCD and Real Time Clock chip. Also, you have the option of any 16 character message to be displayed on your LCD display. Maybe your call letters ?)

- 3) Basic keyer version. Uses LED's for display and has no special options. Does have standard 8 memories, iambic keying, dot/dash memories, and memory backup.

Once the keyer gets published it'll cost \$15 for a programmed PROM or \$5 for a disk listing. (C128 CP/M or IBM PC format) If you wish to do your own PROM I have hard copy listings for free, however, 2K bytes is a lot of data to enter by hand. (I know from experience!) Ray Leslie is handling the PCB and parts kits available for those interested, then see me about some software. Mike - UUJ

FROM THE EDITOR.....

1988 is Half Over!!!! This RELAY, like some of the others, is short. I did not hear from some of the Board members this time, so guess that explains some of the blank pages. Anyway, keep those articles coming in and I will keep printing them.

Field Day is coming up fast and I hear there is still lots to do to be ready. It is such a fun time and I must miss it this year. Enclosed in this newsletter is a check-list for all of those going. It should come in handy, as always.

SEAFAIR is also coming up quickly. Chuck, WA7EBH, will be needing lots of you HAMS to help with the parades and other activities. The Redmond Parade is July 16, the same day as the club meeting, so hope many of you can join us with this one.

Vic, WB7TBR, has been ill and in the hospital, but is home now and feeling better, I'm told. Sure hope so.

See you at the meeting!!!! N7JPW

It is the dull man who is always sure, and the sure man who is always dull. H.L. Mencken

EXAM SCHEDULE

Brad Wells and Gene Sprague have done a pretty good job of compiling VE exam sessions throughout the state. The present list contains schedules for 14 separate locations, including dates, times, and contact persons. I also have blank data sheets for persons wishing to register their sessions if they have not already done so.

If you need information about VE Examinations, feel free to call and I'll give any help I can.
mike - UJJ

WELCOME ABOARD

CHARLES EVERETT, KB7ERF, 31203 Military, Auburn, Wa. 98001.
TOM KUHLMEIER, WA7YFH, 3828 - 34th Ave. SW, Seattle, Wa. 98126.
PETER DAHL, W7FUS, 1609 S. 261st Pl, Kent, Wa. 98032. Ph 839-7717.
DONALD GARDNER, WB9JZL.
MIKE CUSSON, KB7ERE, 15918 - 81st Pl. NE, Bothell, Wa. 98011.

PICNIC

Last RELAY, Hal N7NW noted that the Club picnic is August 21. Tentative site is VanDoren Park in Kent. Hopefully, we will have an update in the July issue.

MAY VISITORS

RANDY DAVIS, no call, 1224 SW 124th #204, Seattle, Wa. 98164. Ph 241-1825.
JOHN M. BOONE, N7ELW, 1917 Gibson Rd., Everett, Wa. 98024. Ph 771-4369.
GARY YOUNG, KB7CDV, 21225 NE 12th St., Redmond, Wa. 98053. Ph 868-1458.
DICK MOWRY, N7PK, no address. Ph 767-5269.

15/80 CW

I am looking for a few good men, or, a lot of lousy ones. Women too. Wanna pound brass? How about dupe? Of course, I must be talking about Field Day right? You betcha!

I have 12, two hour openings for brave souls wanting to try the Field Day 'experience' and I need two people for each opening. Here is your chance to prove you have the "right stuff"! No experience you say? Well, we provide excellent on the job training down on the Continous Waves Beach.

There will be a sign up sheet at the next club meeting. I hope you will take this opportunity to go for the Gusto. Our motto....? "The Few, the Brave, the CW Ops!"
Mike - UJJ



JULY 1988



S M T W T F S

31 CHINATOWN SEAFAIR PARADE 1700 HRS CALL 392-5303 WATEBH					1	2
3	4 INDEPENDENCE DAY	5 BOARD MEETING 1930 QTH OF: NUTZ	6 ARRL WEST COAST QUALIFYING RUN	7	8	9 KENT CORNUCOPIA DAYS PARADE 1200 HRS CALL 392-5303 WATEBH
10 PARADE "WHEELS OF FIRE" IN REDMOND. CALL 334-6391 WB7VYA	11 M & K UHF NET 1930 HRS/224.12	12 AMERICAN YOUTH HOSTEL "GRAPE NUTS" BIKE FESTIVAL. CALL 526-9022	13	14	15 REDMOND BIKE PARADE ON 16TH 0800 HRS. CALL 392-5303 WATEBH	16 Redmond PARADE CLUB MEETING STARTS AT 1000 - COFFEE READY AT 0930-BRING A FRIEND
17 SEAFAIR ANNUAL TRI-A-THALON AT 0730 HRS. SEWARD PARK. CALL 271-5314 K6DOW	18 M&K UHF NET 1930 HRS/224.12	19 18TH "SHORE RUN" ON LAKE WASHINGTON. SEWARD PARK. CALL 883-2523 KA7G00	20	21	22	23 WIAW QUALIFYING RUN
24	25 M & K UHF NET 1930 HRS/224.12	26	27	28	29	30 DES MOINES SEAFAIR PARADE 1600 HRS CALL 392-5303 WATEBH

FIELD DAY CHECK - LIST

(Revised and Updated Ver. 1.2)

OPERATING

PERSONAL

- _____ TRANSMITTER
- _____ RECEIVER
- _____ POWER SUPPLY
- _____ SPARE FUSES FOR ABOVE
- _____ EXTENSION CORDS
- _____ TRANSMATCH.
- _____ SWR BRIDGE
- _____ OPERATING LIGHTS
- _____ F.C.C. LICENSE
- _____ LOG SHEETS
- _____ DUPE SHEETS
- _____ SCRATCH PAPER
- _____ LOTS OF PENCILS
- _____ PENCIL SHARPENER
- _____ MICROPHONE
- _____ KEYS, BUG, OR KEY
- _____ CLOCK
- _____ OPERATING TABLE
- _____ CHAIRS
- _____ HEADPHONES
- _____ ANTENNAS
- _____ TOWER OR MAST
- _____ GUYLINE - ROPE
- _____ GUY ANCHORS "REBAR"
- _____ ROTOR WITH CABLE
- _____ FEEDLINE WITH CONNECTORS
- _____ EXTRA FEEDLIN
- _____ EXTRA CONNECTORS
- _____ BARREL CONNECTORS
- _____ MECHANICS TOOL BOX (WITH NUTS & BOLTS)
- _____ ELECTRONICS TOOL BOX (WITH SOLDER
- _____ AND SOLDERING IRON)
- _____ AMERICAN FLAG FOR TOWER
- _____ CHRISTMAS TREE LIGHTS FOR TOWER
- _____ RIBBON FOR GUY-LINES
- _____ SLEDGE HAMMER
- _____ HARD HAT
- _____ CLIMBING BELT
- _____ 146.58 SIMPLEX RIG
- _____ BACKUP RIG - COMPLETE
- _____ SPARE LIGHT BULBS
- _____ GROUND STAKE, WIRE, AND CLAMPS
- _____ ELECTRICAL TAPE
- _____ DUCT TAPE

- _____ FOOD & UTENSILS
- _____ SNACKS
- _____ RAIN GEAR
- _____ WARM COAT
- _____ BOOTS
- _____ GLOVES
- _____ TOILETRIES
- _____ GAS LANTERN
- _____ STOVE
- _____ FUEL FOR ABOVE
- _____ FLASHLIGHT
- _____ EXTRA BATTERIES
- _____ MATCHES
- _____ SLEEPING GEAR
- _____ NON-ELECTRIC CLOCK
- _____ FIRST AID KIT
- _____ TRASH BAGS
- _____ WATER
- _____ INSECT REPELENT
- _____ SUN SCREEN LOTION
- _____ CAMERA
- _____ FILM FOR ABOVE
- _____ CASH FOR CAMP FEE
- _____ DRUGS FOR THOSE
- _____ MALADIES YOU ARE
- _____ SUCEPTIBLE TO

- _____ mik PAPERS
- _____ READING MATERIAL
- _____ WEED WACKER
- _____ BATTERY CHARGER
- _____ 8 WAY RECEPTACLE
- _____ 50' MEASURING TAPE
- _____ XYL & KIDS

ALSO: Leave phone numbers of hams who are not going to Field Day that can contact the site in case of an emergency. Be certain to bring plenty of water as there is NONE at the operating site!!!