



The NCCC 75 meter net
meets on Thursdays at
9PM,
3830 approximately

NCCC Meeting

*Guests are always welcome at the NCCC!
Please join us.*

Program

**"Fall/Winter NCCC Contesting -
Inspirations and Preparations"**
**Bill N6ZFO, Ken N6RO, Dean N6BV,
Kent K6ENT**

Monday, 14 October 2002

6:00 schmooze 6:30 dinner 7:00 program

The Cantina, Mill Valley

651 E. Blithedale Avenue

Mill Valley, CA 94941

Tel (415) 381-1070

<http://cantinamillvalley.citysearch.com>

Dinner: Fajita bar featuring build your own beef,
chicken, or vegetarian fajita's, along with side dishes
and soft drink for \$15, tax and tip included.

And hold this date open on your calendar:

Monday, November 11

Location: Tibco, Palo Alto

Program: TBA

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Annual December Party

Our annual December Party will be held on Monday night, December 9th at Chef Wang's Chinese Restaurant, 5100 El Camino Real, Los Altos, Calif. This is the same restaurant we partied in last year, and the year before, and maybe even the year before that. Why tamper with success? Actually, we did do some comparison shopping and found Chef Wang's to be the preferred choice of the NCCC BoD.

I will give you more details, such as time, etc., but for now, I just wanted to let you know so you could mark it on your calendar, or tap it into your Palm PDA, and not make other, conflicting, reservations. The cost, despite rampant inflation (only kidding), is still \$25 per person (how reasonable!). That includes all the wonderful dishes that will be distributed at each table.

The food is plentiful and delicious, and, as in years past, Tom N6BT will act as our combination master of ceremonies and giver of gifts. (Tom, make a note of that date - Monday, December 9). This is really a special party as it provides an opportunity for our significant others to party with us and feel supportive. And, as there are usually at least two significant others at each table, they have someone to talk to who won't be talking about "mults" and "Q's" and other evidence of abnormal psychology.

I will begin taking reservations from members, immediately, and issue additional reminders over the next month or two. We want to especially welcome our new members who joined after last year's fete. With CQP and SS behind us, here's a chance to really unwind. So, make a note of it, now, and don't forget to let me know that you're coming.

73.....Rob K6RB

Dave's Wave's



September Meeting Highlights

The theory and practice of CQP Expeditions was revealed to all at the Mountain View Tied House. K6SRZ's video followed in the fine traditions of expedition film making, showing us how to do a top scoring expedition effort as well as the planning, travel, set-up and other off-air activities that go with any expedition but that we don't hear from the other end of the path. Then K6SRZ joined a panel of other esteemed and experienced expedition ops whose secrets were forced out under TV-Bob's probative questioning. The debate was actually quite civilized, and for that I sincerely apologize. My efforts at getting them rowdy and well lubricated with Ron's finest seemed to have only a limited impact. Thanks again to all the panelists: N6DE, AD6E, W6ISO, N6NT, and K6SRZ, and moderator N6TV.

Also, please join me in welcoming the three new members that joined at the September meeting: Javier NM6E, Jim WA6PX, and Jun K6KF.

CQP is Almost Here!

The CQP will be upon us as this newsletter reaches you. I hope you plan to be on. This really has to be one of the most fun events to do from 6-land. It's a friendly contest, and a 6 in your call sign is actually

an asset. It's also a great way to make sure that all parts of the station are tuned up and perking well for the major part of the contest season soon to follow. I know for my part CQP is a prime motivator to get my station knocked into some kind of reasonable shape for the autumn season.

So, it's time to do those antenna farm tweaks, finally do that equipment re-arrangement you've been putting off, and get things ready to say hello to old friends in the CQP. And don't forget the NEQP challenge! Now it is our turn to put on a good show for the rest of the contesting world and hopefully win our little side bet with the NEQP sponsors. Let's show our friends out East how to run a contest.

October Meeting Topic: Contest Season Prep

The October meeting will feature contest season preparation, with VP/CC Bill, N6ZFO with SS analysis; Ken, N6RO on strategy and Dean, N6BV on propagation. We'll be discussing the entire fall contest season, not just SS, so we'll have comments pertinent to our other club activities as well. There will be a few comments on adjustments to the award structure this year reflecting our fall focus. So, bring your CQP war stories to share with the gang. Then let our speakers show you how to refine your fall contest checklist.

73, Dave N6NZ

UPCOMING CONTESTS

October 2002

California QSO Party 1600Z, Oct 5 - 2200Z, Oct 6
Oceania DX Contest, CW 0800Z, Oct 12 - 0800Z, Oct 13
EU Autumn Sprint, CW 1500Z - 1859Z, Oct 12
Pennsylvania QSO Party 1600Z, Oct 12 - 0500Z, Oct 13 and
1300Z - 2200Z, Oct 13
North American Sprint, RTTY 0000Z - 0400Z, Oct 13
JARTS WW RTTY Contest 0000Z, Oct 19 - 2400Z, Oct 20
RSGB 21/28 MHz Contest, CW 0700Z - 1900Z, Oct 20
Illinois QSO Party 1800Z, Oct 20 - 0200Z, Oct 21
CQ WW DX Contest, SSB 0000Z, Oct 26 - 2400Z, Oct 27

November, 2002

IPA Contest, CW 0600Z - 1000Z, Nov 2 and
1400Z - 1800Z, Nov 2
Ukrainian DX Contest 1200Z, Nov 2 - 1200Z, Nov 3

LOG DUE DATES:

October 8, 2002 North American Sprint, CW
E-mail: cwsprint@ncjweb.com

October 15, 2002 North American Sprint, SSB
E-mail: ssbsprint@ncjweb.com

October 16, 2002 ARRL September VHF QSO Party
E-mail: SeptemberVHF@arrl.org

October 22, 2002 ARRL 10 GHz Cumulative Contest
E-mail: 10GHZ@arrl.org

October 31, 2002 All Asian DX Contest, SSB
E-mail: aaph@jarl.or.jp

October 31, 2002 Scandinavian Activity Contest, CW
E-mail: sac@contesting.com

October 31, 2002 Washington State Salmon Run
E-mail: salmonrun@wwdxc.org

Contest Musings

by N6ZFO, VP/CC

NCCC members got off to a running 2002-03 contest season start with truly amazing participation in several late August and September events, including our perennial favorites, the NCJ NAQP and Sprints. Those were four contests in a short period of time, and the participation level was amazing to say the least. The word is out -- NCCC is on the contest warpath. Our activity level has been duly noted, including special references on the CQ-Contest Reflector to the NCCC domination of the NCJ phone sprint. Much of contesting success comes from motivation and enthusiasm. For whatever reason, we seem to have it. Let's continue to keep the contest juices flowing as the big ones come over the horizon in October, November and December.

September Sprints.

Skill building is an important NCCC goal. We can all learn something new. Perhaps the best events for honing contesting skills are the National Contest Journal CW and Phone Sprints, held twice a year in September and February. These fast paced contests have the further advantage of lasting for a mere four hours -- well some would argue with the 'mere' part.

Under the leadership of Mark, KI7WX, NCCC entered an amazing three teams for the Phone Sprint, two having the full contingent of 10 members each. There was some controversy because Mark included a couple non-NCCC stations, a situation fully condoned and in fact encouraged by NCJ Sprint rules. While feelings on this action varied, the controversy may have spurred an unprecedented number of participants. Mark's team #1 had an average score of 11,090 points, the second team achieving an average 6,000 points per log. We will follow up and put these results in perspective later. Top NCCC scorers were N6RO, 11940; W6EU, 10500; and AE6Y, 10062, but results aren't as yet completely reported.

Jim, W6EU took charge of an amazing CW Sprint two weeks earlier, with the following results: The top finishers, all on Team #1 were N6TV, 14,985; N6RO, 12,390; K6XX, 11,836 and N6XI,

11,825. Well, probably no surprises there. By the way, Jim is a true organizational expert. No Team 2 member made a higher score than the lowest score on Team 1. If you think that's a trivial accomplishment, just try organizing one of these things.

What was also exciting was the number of new members trying these demanding contests, some for the first time, notably K6UFO, W6ZZZ, and ND2T; maybe others -- please let me know if I've forgotten to highlight your participation. And we lured at least one seasoned NCCC member whom I've not seen in the NCJ Sprint before, namely Alan, K6SRZ.

Tradition has it that NCCC takes the leadership for Sprint practice sessions on Friday night, usually led by Ken, N6RO with N6ZFO there for encouragement and support. With announcement on the CQ-Contest Reflector, this practice sprint, carried out on 40 and 80 m CW, became an event in itself. Several new members commented on the value of this exercise, and we encourage others to participate in future practices.

The 3830 Net.

Most Thursday nights, we gather around 3830 at 2100 local Pacific Time for contest, or even non-contest oriented discussions. All are encouraged to attend these, but in fact, we're probably glad that not all show up. These gatherings become particularly important in the contest season, and as noted, take on special importance because of the contest practice sessions held, usually on the following Friday night. For example, even if you're not doing an expedition for CQP, drop by and help us give reports and encouragement to those brave souls who will be wandering out into the hinterlands to dole out rare counties to thousands of stations in CQP -- the contest where California rules.

State QSO Parties

There's no question, CQP is the finest QSO Party in the land. As contest chair this year, I've tried to encourage us to increase our own participation in some of the better non-CA QSO parties, taking advantage of these events to remind others of the CA party, and

at the same time just trying to further raise the contesting reputation of NCCC. The New England QSO party, in it's first year, was a case in point. I want to thank all those who have supported this effort. We'll get some indication of the success of these efforts when we look at the number of New England stations which enter CQP this year and submit logs. This information was discussed in detail in the June JUG. Chris Terkla, the President of YCCC and I are still trying to finalize an inter-club NEQP-CQP competition, which we think will start with next year's two contests rather than the current CQP.

Submit Your Score Goals for ARRL SS and ARRL 10M Contests.

Ed has just posted our first score pledges on the NCCC members only web page. To find the table, just go to the member's pages, and look for the link just above the propagation chart listings. Most importantly, please e-mail your score pledges for SS CW, SS Phone and 10Meter Contests to n6zfo@arrl.net. For some, estimating a 10 meter score may be difficult, as we don't have a great deal of experience with this contest. First, assume propagation will be good to excellent - we'll hear more details from Dean, N6BV at the October meeting in Mill Valley. Then, you may want to use your past ARRL SS score as a guide to predicting your 10M score. For a medium sized station, I'd suggest taking your higher SS Score (CW or phone) from last year, and multiplying it by about 3 for an equivalent level of participation. Maybe slightly less if phone only. For big-gun stations, maybe use a factor of about 4 or more. Thus if you scored 200,000 points in SS Phone last year, and plan a reasonably full effort, then 800,000- 1,000,000 points would be reasonable. For a smaller station or lesser effort a factor of 2 to 2.5 might be a reasonable guess.

Why do we have goals? Well lots of reasons. But the main ones are to put a focus on participation and establish a commitment to participate in these important contests. We're not interested in accuracy here, and there's no penalty for aiming too high. The important thing is to actually make the pledge. And don't think you can avoid us -- we'll be mounting an increasing effort as the critical dates approach. You don't know

the dates??? Better look immediately at the contest calendar elsewhere in this JUG, and by all means re-read last month's JUG!

So, in summary, let's put some focus on these two important contests: First, as noted above, go to last month's issue and re-read the Sweepstakes preparation recipe. Then sharpen your pencil, do some back-of-the-envelope calculations, and forward your pledges for ARRL SS CW, ARRL SS Phone, and 10M Contests to n6zfo@arrl.net.

Contest Preparation

Dan, K6IF, has put together an inspiring web page on the subject of preparing for a contest. I'd recommend that each of you spend some time looking at his eloquent and heartfelt description of his previous successful effort to make a nationally important score in the ARRL 10 meter contest. Dan is one of our several major experts in this contest, something that has special relevance for us this year. Also, do not forget last month's admonition to study the details of the K6XX Edition of the SS handbook, which lurks on the members-only NCCC Web page. Please let me know if you have a favorite source of information that's not as well known.

Welcome to New NCCC Members from the Contest Chair

It's most encouraging to have a membership drive in full swing. I welcome all new members to drop me an e-mail directly if you have a question about the club's contest activities. Not everyone feels comfortable jumping into the reflector immediately. While there's really no question that can't be raised on the reflector, we realize that some prefer the privacy of a direct answer. In any case, I and the other officers would love to hear from you. Impressions you have as new members can be particularly valuable to those of us who are managing the club effort this year, and trying to build an ever-stronger radio contesting club.

For now, 73, and let's make those bands sing with NCCC calls in the coming months.

THE NCCC TECHNICAL COMMITTEE WEEKLY MEETING

A recent survey of the membership, showed that very few of them as was axed knew that there was a NCCC Committee which meets weekly for lunch to solve problems posed by members or any other lonely sole mit problemas. Questions are only accepted from them present at the meeting, and written or email questions are not acceptable. So, be advised that anyone with a problem can attend these weekly meetings, pose their problems and receive immediate solutions. Sometimes visitors are even allowed to lunch with The Committee.

If you, as a duze-paying loyal, point-scoring NCCC member, wish to attend, you are invited to assemble at the HRO Sunnyvale store about 11:15 AM every Tuesday except when Tuesdays is on Christmas. At approximately 11:26AM The Committee moves en-masse to a salad/sangwitch ristorante adjacent to the HRO store. Visitors are expected to pay for their own chow. The Committee gives out free advice, but no free lunch.

The range of questions is astounding, but The Committee ALWAYS can find answers. To answer as many questions as possible during lunch hours, questions are directed to the Sub Committee which handles a particular line of question. For example, when the question arose about what was the order of battle of the Roman Legions which assaulted Masada, the question was referred to the Ancient History Specialist Section of the History Sub Committee.

Now and then, discussions and questions get serious and request information about amateur radio subjects. How many turns of number 26 wire on an oatmeal box is needed for the crystal set to tune to KGO? Easy. Assign Q to Receiver Specialist Section of the Receiverl Sub Committee. Or maybe there is a question about Low Band antennae! Well, we have a **Sit**-ting Sub Section of the Sub Committee of the General LF Antenna Committee (which speaks in whispers over in a corner of the restaurant) that can solve ANY LF antenna problem. They could not accept any questions last week because they were plotting a

shortened 4 element rotary for that new band up the other side of the BC band. They will submit a complete report to the Full Committee before the end of the decade. But just in case they come to a conclusion earlier, you had better plan to be at launch every week to hear the plan. Meanwhile, move outa town and get some acreage.

Not all of the questions are so frivolous, however. A recent question about tower base construction was put to the Tower Sub Committee of the Transmission Committee. Now, dear reader, consider the rapidity of the solution to this problem. A regular-attending Lunch-Eater was munching his sangwich when his cell fone tooted. It was a man astride a back hoe up in the Sierras at this gentleman's future amateur tower location. The back hoe man was under instruction to dig a pit 6x6x8 for a tower base. owsome ver, the back hoe man dug 2 feet and hit solid bed rock. "So, what do ya ant me to do"? The question was instantly proposed to the aforementioned Sub Committee. A Sub Committee member whipped out his automatical Palm Navigator and punched up a fone number for Sub Committee Consultant Antenna Man Steve, K7LXC, who lives up in Washington. Steve answers the fone call. He is roped 94 feet up on a tower but instantly spewes forth the proper procedure. Do this and that. Copious notes taken. Thanks Steve. Come to lunch when you're down this way. We buy. Anxious Lunch-Eater has the answer. Calls Back Hoe Man. Do this. Problem solved. Anxious Lunch-Eater will get his 140' tower erected in time for SS. Lunch-Eater smiles. Finishes off sangwich.

But not all questions are stuck on radio stuff. The above example of Masada is an example. Yeah Herebee a few small samples of recent Qs and As which came before the SubComs:

For Caribbean SubCom.....deep reef diving technology and survival from bends.....location of old pirate ships and modern pirate people/countries and amachures.....to stay away from.....

For Veggie Sub-Com: what is the best cucumber variety for this area..... use of Viagra for fertilizing zucchini....how can one know when carrots are ready? (Ans: eat one).....effect of RF radiation on sweet corn when grown under a 5 element yagee....

DX SubCom.....when is next Dxp'd to..(fill in your needs)?.....when is that fella on from 3Y?..... can the Famous Finn get a license for 7O?.....when?..... Are them 80 meter fellas making up them DX QSOs?...

Local Stuff SubCom.....can TVBob get coverage for all counties in CQP?.....Will NR6O buy the ranch next door for more ant space?.....when will NCDXC and NCCC get a packet system worthy of their world-wide superior reputation?.....How?....Who?.....

Contest Strategy SubCom.....how much better is a bad SO2R op than a good SO1R op? How to recruit more NCCC members?.....did you read the chuckle NCJ story by NCCC past Pres?.....why can't NCCC recruit all them rag chewers to join?.....it's free now....

Personal Hygiene SubCom.....how much should a man get clipped for a haircut? With or without tip.... best uniform to wear while contesting....does a mustacheo create hissing sounds in the new Heil?.....

Home Owners SubCom.....detailed instructions and tools necessary about how to nail plaster board inside your house.....will lead base paint absorb or reflect RF?.....repairing generators in the rain in the middle of a contest.....

NCCC SubCom.....is Trey demonstrating fighter pilot tactics used in contesting?.....how come we got beat?.....

Medieval SubCom:.....what slices are administered to the bod when a traitor is "drawn and quartered"? where did Lief Erickson really try to settle

in North America? (yeah, he was at the early MidAges. Don't quibble).....was Richard The 3 really humpbacked?...or just poor posture?....

Recent History SubCom: Did or did not Roosevelt know?..... where will the DOW be on April 17, 2003?.....

Literary (sic) SubCom:where will Harry Potter go next and who will he encounter? (Maybe bump this one up to entire Com). Why don't some of the members of NCCC help out our hard-working JUG editor Mary, NA6e, (known as "e" to her admirers) with a JUG article now and then? (The answer is that JUG readers say they are busy. Doing what? Identifying birds landing on their antennae? Or say they can't write. So who pays the bills at your casa)?....

Help "e" Literary Sub Com:The Overall Committee has decreed: All Committees, including all SubComs, will meet in solum conclave next Tuesday to discuss the Publications SubCom plan by which a NCCC member will be selected by random drawing to write the lead story/editorial for the JUG next month. All NCCC members will be available for the selection. If you do not wish to be the one selected to write the story for "e", show up at HRO next Tuesday and defend yourself. Only those NOT present will be considered to be selected to be drawn.....and quartered.

Hey...we got all the answers. You got any questions? HRO. Tuesdays.

-----de W6ISQ

NEW MEMBERS

In the last issue and on the reflector, I put out a call for info on new members. This is great fun, especially for those of us that have trouble making it to the meetings. So, if you are a new member, drop me a line and tell me about yourself. Pictures are a bonus!!

73 es KB, Mary—NA6E

If electricity comes from electrons ... Does that mean that morality comes from morons?

The NCCC Roving Reporter

Flash! News too amazing not to report to the NCCC membership has once again summoned the NCCC Roving Reporter from permanent retirement.

Startling Innovation from ARRL Headquarters.

In a move sure to revolutionize contesting ARRL has taken the bold step of adopting Vertical Format contest certificates. Dan Henderson, N1ND, Contest Manager for ARRL, reported this innovative development to the CQ-Contest Reflector on August 28, 2002:

“After many years of service, [ARRL is] retiring our old style landscape-format (horizontal) certificates and replacing them with sleek, sharp portrait-style (vertical) designs. The changeover has meant delivery delays, however.”

Was Opportunity Presented by Contest Coverage Changes at QST??

The Roving Reporter, in an attempt to explore the news behind the news, investigated the ARRL news with vigor. Is it possible that this new certificate plan came, indirectly, from the decision announced earlier this year, to eliminate line scores from QST, thus giving ARRL staff members free time to devise bold new approaches to contest reporting? If so, the future is bright, because such ideas should offer great promise to all radio contest enthusiasts.

Explanation Found for Delays in Issuing Vertical Format Certificates

One might think that the design and release of new certificates should proceed smoothly. As noted above, the RR was struck by the appended note in the e-mail message predicting a delay in the delivery of these new vertical certificates. Why should this be??? Special information, available only to the Roving Reporter, has revealed the shocking truth about the certificates and the real story behind these delays.

Hopefully, innovation at this high level would come from after-hours brainstorming sessions conducted in a spirit of fervent desire to improve contesting. Not so. It seems that an HQ staffer accidentally hit the previously unused “portrait” button in the ARRL Word Processor, a Beta test version from a defunct company called *Word-Splat*. But the idea of a new certificate design was so compelling that board meetings were immediately held, and resolutions authorizing N1ND to issue vertical certificates were quickly adopted. Unfortunately, no one had bothered to look in the printer tray. Apparently, the Beta test version of *Word Splat* had a slight error in the Portrait format coding, and Figure 1b was the horrifying result.

As you can see, the recipient of these new vertical format certificates must turn his or her head sideways to actually read the writing. Obviously this would be unsatisfactory, so HQ immediately went back to closed door meetings, eventually reaching another bold decision to supply each contest winner with a special set of “contest certificate viewing glasses”, which when worn by the ham operator, would rotate the images by 90 degrees. Because this complex optical technology is not exactly off-the-shelf, delays and possibly major costs are anticipated. You can watch the CQ-Reflector for further details.

Fortunately, funds were available to develop the novel glasses based on the savings realized from eliminating contest line scores from QST.



Figure 1a. Old Style ARRL Contest Certificate.



Figure 1b. New VF Style ARRL Contest Certificate.

ARRL Innovation is Contagious -- New VF Transceivers Announced

Not unexpectedly, the bold new vertical format certificate design has sparked a wave of innovation in the Amateur Radio Industry. Most significant is the soon-to-be-announced line of Vertical Format (VF) transceivers from a popular ham radio manufacturer. And, you guessed it, the Roving Reporter has obtained advanced information and a photograph of these new rigs. The design objective is to conserve valuable horizontal space on the amateur's desk, even allowing for some hams, a station to be installed in the XYL's or (OM's) clothes closet.

Although fuzzy and difficult to see, Figure 2 shows the prototype of a new VF rig, apparently a well-known Yaesu contest model. Because there are actually two possible formats of the vertical design, involving rotation to the right or left, the company will issue two models, to be called the FT 1000 MP MkV VF LL and the FT1000 MP MkV VF RL. The LL and RL designation indicates the direction the operator must lean to read the displays and meters, which will not be re-formatted in order to speed production. Else someone like the Roving Reporter could make fun of the company for delays. However, the new transceiver design has led to internal controversy

since these new VF rigs overturn years of work to place the FT-1000's essential knobs in the least convenient position. For example, right-handed purchasers of FT1000 MP MkV LL rigs will be able to more conveniently reach, and actually see, the RF power and keyer controls. One group in the company seeks a complete redesign to place these essential controls in the center, recessed into a well and almost impossible to adjust except with tweezers. A second faction feels that the neck strain issues will provide the desired level of discomfort and inconvenience.



Figure 2. VF Style Transceiver Inspired by ARRL Vertical Contest Certificate Format.

Don't Modify an Existing Rig to VF

The company advises against simply rotating an existing rig to achieve VF. The amateur should never attempt to do this, but should rather purchase new equipment, or return existing rigs to the factory for upgrades, which will be done at cost. (Great cost, RR). They warn hams that there is a slim but finite chance that specialized effects, such as the effect of gravity on electron flow, will modify performance of an existing rig if used in vertical format for a long period or through a vigorous contest such as the upcoming CQP.

The Real Contribution of VF Rigs

Finally, as with most bold new inventions, there's spin-off from the new VF transceiver design. VF in fact has potential to resolve a highly embarrassing situation within ham radio. Such rigs have in the past been commonly referred to as "HF Transceivers" in

apparent total disregard for the obvious (to everyone else) fact the “high frequency” (HF) has not been the technically correct description of 160, 80 and 40 meters for well over 50 years. As we all know, *Giga-hertz* wireless equipment is now commonplace in the homes of most consumers, not to mention in ham radio. With the advent of the new VF rigs and using revisionist history, it should be possible to redesignate the abbreviation HF as “horizontal format,” thereby suggesting that’s what HF really always meant. In fact, the Roving Reporter thinks that this

factor may be the biggest contribution from ARRL’s transition to vertical format certificates, thus making ham radio a little less ridiculous.

NCCC Roving Reporter Retires, Again

For the good of all NCCCr's, the Roving Reporter will now lapse back into perpetual retirement to continue preparations for the fall and winter HF contests. Whoops, delete that last abbreviation. Speaking of the novel VF design, have a quick look at one of you old CQP certificates

Antenna Fun From K6KM

Back in June Mark, WT6P and I were invited up to Bill and Ginny’s (K6KM and N6RER respectively) for a BBQ...and just a bit of antenna work. Sounds fun, eh? The next note from Bill stated that Kenny, K2KW would be joining us. Neat. Next note was a bit confusing, but if Bill wants to rent a bucket...I told him I had an extra one that I use when I mop the floors, but he seemed to prefer the rental...hmmmm...The following pictures are just a brief view of the fun...

...73, Mary—NA6E

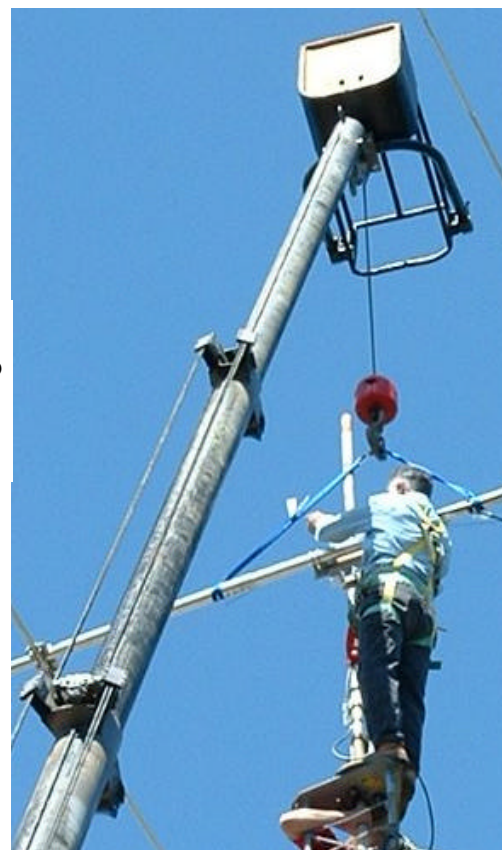


NA6E telling the bucket driver, K2KW and WT6P to get her the heck out of this crazy thing!!!! Give me a 160 foot tower to climb anyday. Whew....



K2KW in the bucket...is that a hand signal he’s giving?

K6KM up the tower...no no Bill...hang on to the tower, not the antenna....



NA6E and WT6P watching K2KW in the bucket. I’m sorry Kenny, I just don’t understand the hand signal....

12 Store Buying Power!



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