

**Deane Bouvier**

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**From:** Eric Christensen [k6ejc@att.net]  
**Sent:** Tuesday, February 17, 2015 12:15 AM  
**To:** Deane Bouvier; Keith Prebble; Eric Christensen; Terry Priesont; Mike Farrell; ws3bnk@hamradio.com; Norm Goodkin; Harry Almada; SCT-Steve Ioerger  
**Subject:** Fw: Altadena Presentation  
**Flag Status:** Red

hi Deane

sorry, but I have another commitment that prevents me from attending this Wed night video chat

Following is a summary of what I would have discussed.

This past Thursday, Terry Priesont M-01, LASD CFMB Sgt. Larry Hastings and I attended a meeting at LASD Altadena with 2 objectives. 1 was to meet and orient LASD Altadena Search and Rescue personnel with DCS and discuss what DCS can do to assist SAR. After a power point presentation by Terry, there was a Q&A. Several SAR members commented they were already hams and a couple expressed interest in becoming hams. We shared some resources and I gave them a copy of ARRL Ham Radio license manual.

I had met several of the Altadena SAR team during 2014 AC-100 at the Chilao Checkpoint (I am the ham radio lead there). 2 of their members ran the AC-100! A few of the other members were either there in support or working patrol.

After this meeting, LASD Altadena Deputy Daniel Paige gave us a tour of Altadena station. This is a VERY SMALL facility that has no room for anything really. SAR is in a stand alone trailer. During the remodel, the former DCS room was torn apart and is now something else. The room they use for briefing/EOC/training is a multi purpose small room. He said he would check with station management to see where a DCS station could be put. Sgt. Hastings said he would followup with Altadena station management and Deputy Paige.

see below for Terry Priesont's email to Rick Norwood.

In a separate email (below), I sent out the results of SWR tests conducted at CVS (Crescenta Valley Station) DCS radio room. We used a Comet CAA-500 SWR antenna analyzer for the tests.

We tested the antenna coax runs to each of our 2m stations (147.27 primary) and our district net (145.540 simplex). Both are Kenwood TM-G707A radios. After that we tested the antenna for our NBEMS station (former 2m packet station); along with our 220 station (Kenwood TM-641A radio) and our 6m/10m station.

We have an Icom IC-726 HF/6m radio with external LDG tuner connected via 2 position Alpha Delta switch to a Cushcraft R-8 HF/6m vertical antenna on the roof of the station. When I originally set up this station, the first station I worked was in British Columbia on 20m.

This radio shares the antenna with our Yaesu FT-8900R 2/440/6m/10m FM radio. Thus only

one radio and only one band can be used at a time. During Monday night net, I did check in on 6m countywide net but heard no one on 10m.

here is the message and test results from CVS station:

After we finished the nets at 2000 hrs, the 3 of us (myself, plus Joe Young and Chuck Lambert) conducted SWR checks of all the antenna cables in our radio room. Results were somewhat disappointing. We used a Comet antenna analyzer for these tests. We do not know what specific antennas are on the roof at this time. I believe a Comet CX-333 2m/220/440 was installed at one time.

Our HF antenna is a Cushcraft R-8 antenna which works very well on several HF bands. A few years ago when I first installed our Icom IC-726 HF radio, the first station I talked to was in British Columbia on 20 m. For tonight's net check ins, I used the Yaesu FT-8900 on 6m and 10m.

I thank Joe and Chuck for their assistance tonight and willingness to stay late.

Starting with our **primary 2m station; 147.27 Countywide net position.** Kenwood TM-G707A radio

146.00 Mhz	showed 1.0/1 match	excellent
146.72	1.0	
145	showed a dip	1.2 match but read at 42 ohms not 50
150	showed ok	1.2/1 match

just to see if it were in actually a 2m/440 antenna, we tested 440

465 mhz	showed 1.3/1
485	1.9/1
452	1.2/1

but unfortunately, the SWR fluctuated too much on 440 / 449 to get a good reading at 50 ohms

Moving on to our **2m District Net station** position 145.540 District simplex net Kenwood TM-G707A radio

We got best measurements at 144.82 mhz	1.3/1 SWR
and 147.580 mhz	1.4/1

testing the same antenna on UHF showed

440 mhz	1.6/1
449	1.7/1

We have used this station successfully to check into City of Burbank Firecorps ACS/BEARS nets on 446.86 R along with City of Glendale GEARS and ARES nets on DARN system on various 440 band frequencies.

Checking other antennas in our radio room:

**NBEMS 2m antenna (unknown type of antenna)** former 2m packet antenna showed

146.94 mhz      1.5/1  
144.815 mhz     1.1/1.2 to 1 SWR

223 mhz            showed 2.25/1 SWR and 440 showed infinite high swr

**Our 220 station radio antenna (older Kenwood TM-641A radio)**

221.5              1.3/1 swr  
225                 1.5/1  
144 mhz showed   2.5 swr

**Our 6m & 10m station (Yaesu FT-8900R) connected to Cushcraft R8 antenna** via Alpha Delta Delta 2B

2 position antenna switch (antenna is shared with our Icom IC-726 HF radio)

50.42 mhz         1.4/1 SWR  
53.09 mhz         2.5/1

29.04 mhz         2.0/1  
29.85               2.6

**Unfortunately at the County frequency 29.47 mhz, the SWR fluctuates too much to be usable**

Our station owns (purchased by Station Boosters) several years ago, 2 new spare antennas: Comet GP-6 2m/440 and Diamond V-2000 2m/440/6m base antennas.

These are both new in package, stored in our radio room. We also have 2 x 500 ft spools of LMR 400 cable.

There are 3 additional out of service coax cables on the floor under the counter.

One cable is labeled "Cable 3 unk"

It showed infinite SWR on VHF frequencies, greater that 3.1/1 on UHF  
it did not test well on HF either

"Cable 2" Beldin 8214 (has 2 PL-259 collars on end)

440 mhz            showed 1.5 SWR  
448                 2.5  
458                 1.5  
483                 1.5

Unfortunately, it showed infinite high SWR on VHF

the 3rd remaining cable labeled "Cable 3 unk"

224 mhz            showed 3.0 SWR  
220                 3.5  
447                 2.0

443 1.5  
did not test well on VHF or HF frequencies

I hope this information is helpful.

73 Eric J Christensen K6EJC  
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