

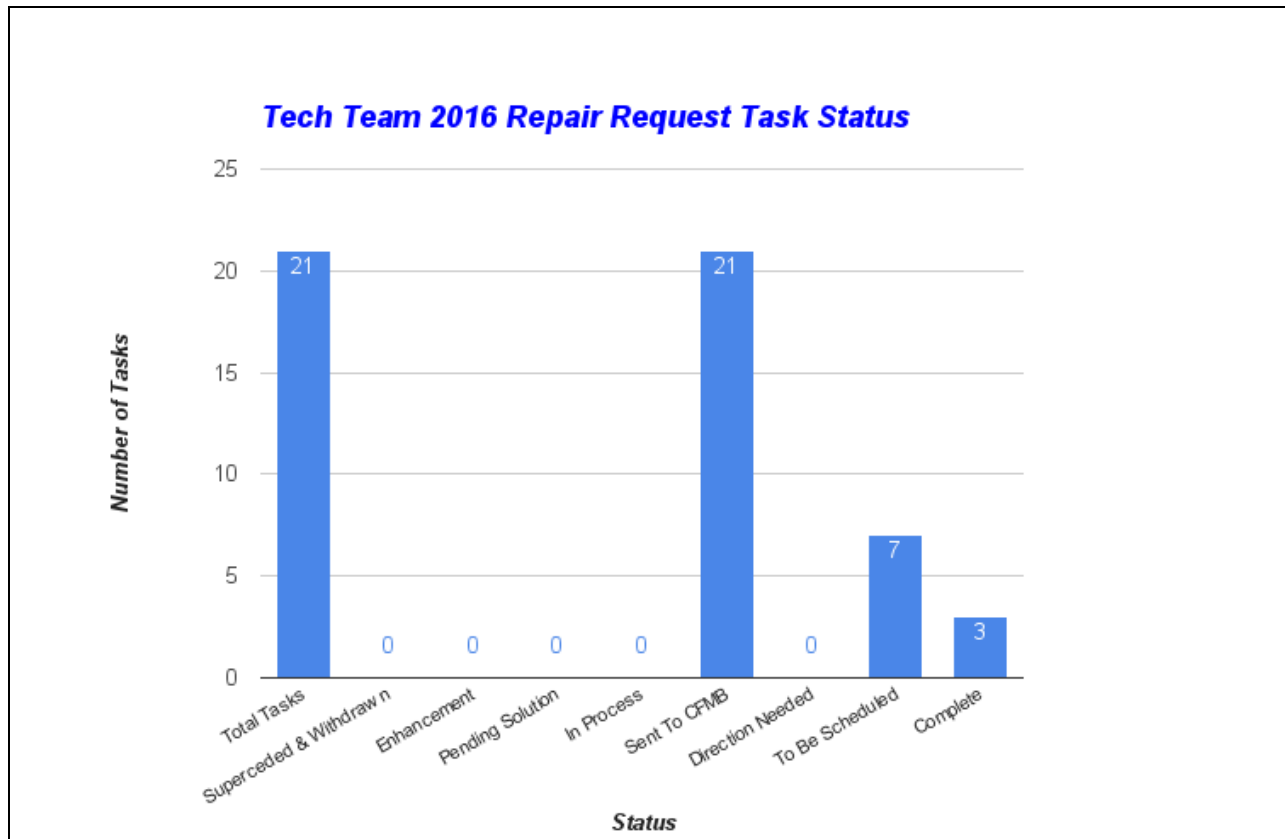
DCS Technical Team Status

19 September 2016

This report summarizes the DCS Tech Team status since the last written report in April.

Repair Requests

The repair requests have been segregated into ones needing ISD manpower and budget and ones only needing ISD manpower to be implemented. Ones needing budget have been put on hold pending funds. The status of the Repair Requests only needing ISD manpower is shown below.



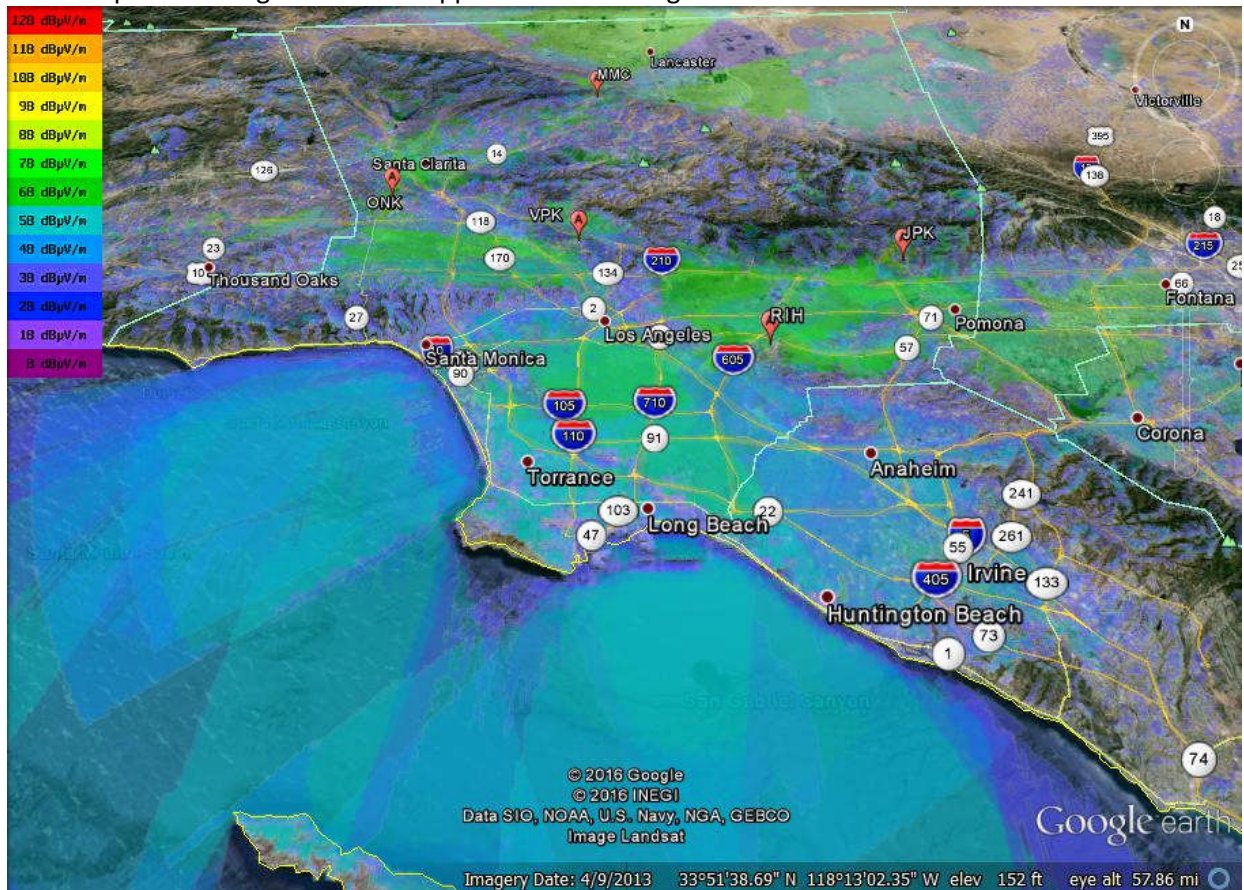
The “To Be Scheduled” category above was identified as the “low hanging fruit” by ISD in 2015. We have no schedule on any of the pending actions.

During his 13 August visit to the DCO Forum Chief Edson asked for a “shopping list” of equipment and implied that he could influence getting funds. A draft shopping list has been prepared. We need confirmation that NBEMS and NVIS capability at the Sheriff stations are requirements and that the needed equipment for these two capabilities should be in the “shopping list” since those items are pricey.

Repeaters

After moving the K6CPT 145.300 MDI repeater to the County building a serious intermod problem developed. The intermod solution required many actions including better filters on the offending transmitters, swapping repeater hardware, relocating the 2m antenna and turning the 2m transmit power down. The result is that the repeater is not useable in the Antelope Valley. If technically possible we need a solution to the intermod that doesn't require turning the power down.

The 147.270 simulcast system is working well with 6 voted receivers and 5 transmitters. The lack of a duplexer is preventing the Rolling Hills Rx site from transmitting as well as potential issues with the neighbors for adding another antenna. The 5-site coverage is shown below and is a great improvement over the previous single site Mt Disappointment coverage.



Transmitting from the Rolling Hills Rx site would start to fill uncovered areas in Palos Verdes, the Beach Cities at the coast and Malibu. There should be 3 new duplexers in the pipe line. We would like to get the Rolling Hills Rx site transmitter going as soon as possible.

We would still like to explore a site at Blackjack on Catalina to more effectively cover the back side of Palos Verdes and Malibu. If the time delay interference (TDI) is too great for a Blackjack simulcast node on 147.270, we should explore simulcast with 145.300 or a non simulcast repeater, on either 147.270 or 145.300. This could use the available 147.270 MDI or 145.300 EOB repeater hardware which are currently idle. There is a co-channel repeater in Ramona on 145.300 which might require tailoring the coverage from Catalina. We would coordinate any feasible solution with TASMA.

There are now known issues with the Mt Disappointment 220 repeater after its move to the County building.

The 445.800 MDI repeater (WA6IBL) is used only once a month for about 5 minutes because it shares the frequency with the Rabbit Radio Network node on Chatsworth Peak. The Mt Disappointment coverage has significant overlap with the Chatsworth coverage. We would like to relocate 445.800 to minimize the coverage overlap and therefore have it available to be used more frequently. The preferred location is the Rolling Hills Rx site. With a viable plan we could develop a written sharing agreement between ourselves and the Rabbit Radio Network. We are the legacy system on the channel and should be in a good negotiating position as long as we try to be accommodating. Resolution of the Rolling Hills Rx site for 147.270 discussed above however is a prerequisite to installing a 440 repeater there also. Until that issue is settled there is no reason to begin discussions on the sharing arrangement with the Rabbit folks.

Frequency Plan

The VHF code plug for the station CDM 1550s was released to ISD on 31 August. We have no status on its implementation at the stations. Without the new code plug, the stations can't take advantage of the simulcast system or interface with contact cities. All frequencies outside the amateur band, including the recognized VHF interoperability frequencies, are programmed in "receive only" mode. Rather than putting together a subset code plug for the CDM 1250s at the stations, we have decided to replace them with 1550s to simplify hardware and code plug maintenance.

The balance of the 2016 frequency plan addressing bands other than 2m, is available on the Tech Team shared drive.

The VHF code plug has also been adapted for the surplus Kenwood TK290 handhelds that have been identified for use by DCS. They need to be engraved and programmed by ISD prior to issuing them to members. Batteries of unknown health have also been identified. We have no status on the follow through actions.

Tech Team Depletion

There has been no other interest expressed and minimal interest from the DCOs in supporting actions such as identifying the city radio group frequencies.

Norm Goodkin has suggested two new members for the Tech Team from LHS. I have asked that they contact me directly. We had a resume process approved by CFMB for the initial members so we should do the same for anyone else.

We really need members in Disaster Management Area E in the eastern part of the County.

Other Topics

The lack of progress is sapping the enthusiasm of the Tech Team. With proper authorization we could do more like simple repairs and radio programming.

Respectfully submitted,

Deane Bouvier
Staff 50
DCS Technical Operations

DCS CDM 1550 Code Plug Deployment Project

9/2/2016

Code plug baseline is the CDM 1550 version dated 8/31.

Station	CDM 1550	CDM1250	MDC PTT Code	Comment
02 ELA	1		0200	
03 SLA	1		0300	
04 NWK	1		0400	
05 TEM	1		0500	
06 SCT	1		0600	
08 SDM	2		080A, 080B	2 radios in the inventory
09 WHD		1*	0900	Replace with CDM 1550*
11 LAN	**		1100	Add CDM 1550**
12 CVS	**		1200	Add CDM 1550**
13 LKD		1*	1300	Replace with CDM 1550*
14 IDT	**		1400	Add CDM 1550**
15 PRV	**		1500	Add CDM 1550**
16 CAS	1		1600	
17 LMT	1		1700	
18 AVA	1		1800	
22 LHS	**		2200	Add CDM 1550**
26 PLM	1		2600	
27 MDR		1*	2700	Replace with CDM 1550*
29 WAL	**		2900	Add CDM 1550**
95 AERO		1*	9500	Replace with CDM 1550*
EOB	1		E0B	
SCC	**		CC00	Add CDM 1550**
	12	4*		7**

* The 4 CDM 1250s are each to be replaced with a CDM 1550 from Trailer E stock. This will establish a standard hardware and code plug baseline to simplify maintenance.

** The 7 Stations without a Motorola radio should get a CDM 1550 from Trailer E stock. In each case we will designate the poorest performing 2m radio to be replaced. The previous 2m antenna should be used. The CDM 1550 should be deployed in the integrated cabinet assembly with built in power supply also from Trailer E stock. Therefore new Astron power supplies should not be required. See adjacent photo.

