

# DCS Technical Team Repair/Installation Request



<b>1.</b>	<b>Location(s)</b>	<b>Control #</b>
	Marina Del Rey Sheriff Station 13851 Fiji Way Marina del Rey, CA 90292	MDR-02
<b>2.</b>	<b>Statement of the Problem(s)</b>	
	<p>A. Marina Del Rey has only one 2m radio, a Motorola CDM1250, which is not frequency agile. They can't move their programmed simplex frequency (which does not comply with the recognized band plan) nor can they support other DCS bands.</p>	
<b>3.</b>	<b>Recommended Solution(s)</b>	
	<p>A. Install a 4-band Yaesu FT-8900R 2m/6m/10m/70cm radio from stock, the required antennas and power supply to achieve the 4 band capability. The required antennas are:</p> <ul style="list-style-type: none"> <li>a. Diamond X50A dual band 2m/70cm</li> <li>b. Diamond CP-610 dual band 6m/10m</li> <li>c. Comet CF-530C Duplexer 1.3-90MHz/ 125-470 MHz to interconnect the antennas to the radio. See attached diagram.</li> </ul> <p>There is a Marine radio, the Motorola CDM1250 and an external speaker mounted to the shelf at the operating position. See attached photo. Suggest the Marine radio be moved to the left to make room for the FT8900. Otherwise remove the Motorola external speaker and put the FT8900 in its place.</p> <p>The Astron VS-35M power supply on the top shelf can handle 25 amps continuous. That is adequate for the CDM1250 @ 13.5 amps plus the Marine radio assumed to be 25 watts @ ~8 amps. Adding the FT8900 @ 8.5 amps will require another Astron RS20A power supply that can handle 16 amps continuous. Alternatively, if only one power supply can be accommodated, remove the Astron VS-35M and replace with an Astron RS-50A for all 3 radios. A variable voltage power supply is neither required nor desired.</p>	
<b>4.</b>	<b>Concurrences</b>	<b>Date</b>
	<b>Technical Team Contact</b>	Mark Stevenson, K-220, <a href="mailto:mes90265@gmail.com">mes90265@gmail.com</a>
	<b>DCO</b>	Nancy Geitgey, S-65, <a href="mailto:kg6zlldcs@gmail.com">kg6zlldcs@gmail.com</a>
	<b>Technical Ops Officer</b>	Deane Bouvier, S-50, <a href="mailto:n5dq@arrl.net">n5dq@arrl.net</a>
<b>5.</b>	<b>CFMB Approval</b>	



## FT8900 4-Band Radio Recommended Configuration

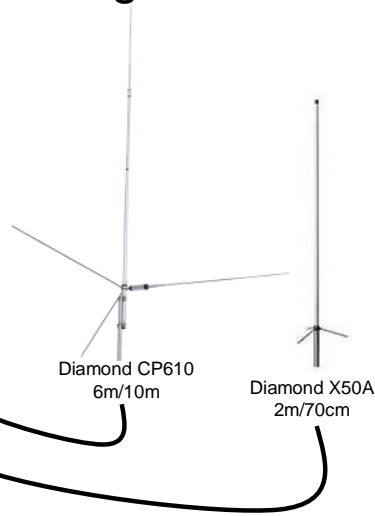
- Two dual band antennas and a duplexer to achieve 4 bands; 6m/10m/2m/70cm



Yaesu FT8900  
10m/6m/2m/70cm  
(8a @ 50/35w)



Comet CF-530C  
Duplexer  
1.3-90 MHz  
125-470 MHz



Diamond CP610  
6m/10m

Diamond X50A  
2m/70cm



Astron VS-35M

Marine Radio

Motorola CDM 1250

External Speaker

MDR DCS Operating Position