

# DCS Technical Team Repair/Installation Request



<b>1.</b>	<b>Location(s)</b>	<b>Control #</b>
	DCS Radio Room off of the Department Operations Center in the County Emergency Operations Center Building	EOB 16-01
<b>2.</b>	<b>Statement of the Problem(s)</b>	
	<p>A. The EOB Alinco DR235 MkIII 220 radio [property tag AA006595] and antenna performance is poor.</p> <ol style="list-style-type: none"> <li>a. The antenna exhibits &gt; 7:1 @ 222 MHz and ∞ @ 225 MHz. There were no dips between the band edges, but one @ 217 MHz.</li> <li>b. The radio itself exhibits a crackling noise when connected to the antenna, the sensitivity is very poor and the squelch action does not work. It shows “busy” all the time regardless of the squelch level set. This appears to be the well-known Alinco bad IF filter problem. Also the DC power cable runs are very long and are in close proximity to computers and other digital equipment, likely to couple noise into the radio.</li> </ol>	
<b>3.</b>	<b>Recommended Solution(s)</b>	
	<p>A. Repair or replace the 220 antenna and replace the radio.</p> <ol style="list-style-type: none"> <li>a. Repair or replace the antenna first. Tune it for the middle of the band 223.500. A 220 Station Master should be in stock.</li> <li>b. With a good antenna in place, replace the Alinco DR 235 with one from stock. Check its performance.</li> <li>c. Shorten the DC cables by relocating the radio and/or power supply. The closest operating position to the power supply distribution panel [VHF CDM 1550] has its own power supply and could be moved furthest away to create room.</li> </ol>	
<b>4.</b>	<b>Concurrences</b>	<b>Date</b>
	<b>Technical Team Contact</b>	Deane Bouvier, S-50, <a href="mailto:n5dq@arrl.net">n5dq@arrl.net</a>
	<b>DCO</b>	Gil Yanow, Z-01, <a href="mailto:gyanow1@verizon.net">gyanow1@verizon.net</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>	