

DCS Technical Team Repair/Installation Request



1.	Location(s)	Control #
	Lomita Sheriff DCS Room and Antennas 26123 S. Narbonne Avenue, Lomita CA 90717	LMT 16-01
2.	Statement of the Problem(s)	
	<p>Lomita cannot support HF.</p> <p>A. Position #4b: The two ICOM IC-726 HF radios exhibit poor performance: LA Co. tag 550580 [nominal 10m & HF radio] with ICOM AH-3 remote tuner and a vertical random wire antenna parallel to the tower leg - Tuner can't find 50 ohms on 10m. Could not be heard on 80m for the State net. Power output only 5 watts at 51.50</p> <p>B. LA Co. tag 550568 [nominal 6m radio] - Power output on 29.50, only 50 watts; on 51.50, only 5 watts</p> <p>C. Each IC-726 radio has its dedicated ICOM power supply which would have to be replaced.</p>	
3.	Recommended Solution(s)	
	<p>We would like to be able to work both 10m and 6m simultaneously as well have an HF capability.</p> <p>A. Remove the IC-726, LA Co. tag 550568 [nominal 6m radio]. In its place, install a new Yaesu FT897D HF transceiver. Install a Hy-Gain DX-88 trap vertical on the roof of the facility with the Hy-Gain RRK-88 roof radial kit. Radio, antenna and radial kit are in CFMB stock.</p> <p>B. Remove the IC-726, LA Co. tag 550580 [nominal 10m & HF radio] with ICOM AH-3 remote tuner and a vertical random wire antenna. Replace with a Yaesu FT 8900 quad-band radio from CFMB stock. Add a low-VHF ground plane to cover 6m (51.50 MHz). Plan to add additional antennas to make the radio 4 –band capable (10m/6m/2m/440) <i>later when budget becomes available.</i></p> <p>C. The FT897 requires 22 amps continuous and the FT8900 requires 8.5 amps continuous. Add a Astron RS-50A power supply (37 amps continuous) for the combination of these two radios.</p>	
4.	Concurrences	Date
	Technical Team Contact	Deane Bouvier, S-50, n5dq@arrl.net
	DCO	Diana Feinberg, S-60, dfeinberg@att.net
	Technical Ops Officer	Deane Bouvier, S-50, n5dq@arrl.net
5.	CFMB Approval	



HF Position (without expenditure of funds)



Yaesu FT897D
HF/6m/2m/70cm (22a @100w)

- Requires dedicated Astron RS-35A power supply
- Radio, DX-88 and roof radial kit in stock

HyGain
DX-88
3 -30 MHz



HyGain
RRK-88
Roof
Radial Kit