

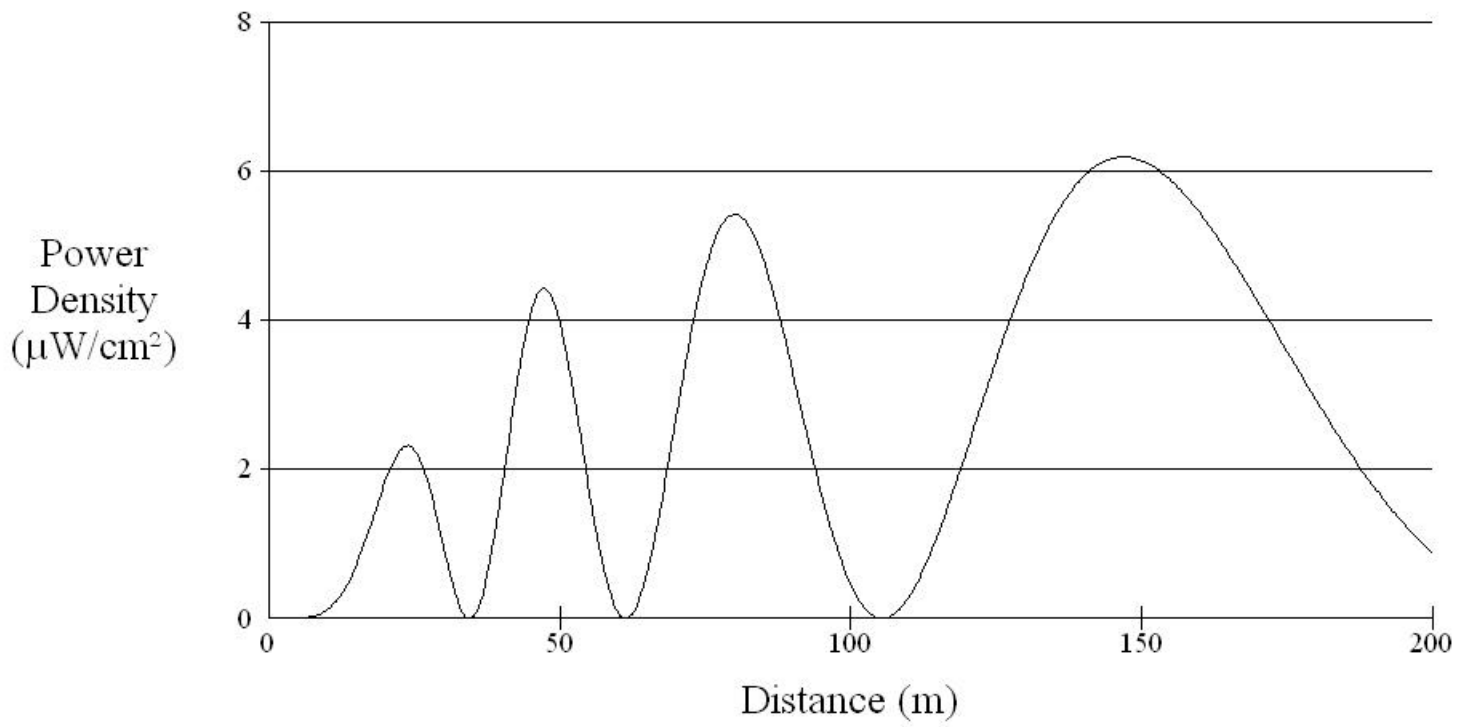
## **ENGINEERING STATEMENT OF JOEL T. SAXBERG**

This application for Construction Permit for FM Station KCLB-FM, Channel 229B, Coachella, CA was prepared for the licensee, MCC Radio, LLC, by Broadcast Engineering and Equipment Maintenance Company, "BEEM CO."

**MULTIPLE USER SITE** – The licensee proposes to locate FM station KCLB-FM to the "KPLM" site which is a developed communications site located approximately 13.6 miles north of Coachella, the city of license. The licensee proposes to erect a 189' overall height tower on this site and side-mounted a reduced spaced FM antenna at 158' above ground level on this tower. On this site are located FM stations KPLM 291B, KMRJ 258A, KKJZ 272A, KKUU 224A. KPSC has relocated its transmitter from this site to the Edom Hill communications site.

**RADIOFREQUENCY ELECTROMAGNETIC FIELDS** – Calculations were made using the FCC Office of Engineering and Technology "FMMODEL" program, which graphically indicates a maximum power density value of approximately 0.006 mW/cm<sup>2</sup> occurs at a distance of 150 meters from the tower base. A 10 element, ½ wavelength spaced rototiller style antenna is proposed to reduce downward fields. The field predicted by FMMODEL is less than 5% of the MPE uncontrolled limit of 0.2 mW/cm<sup>2</sup>. It is believed that this installation is categorically excluded since it contributes less than 5% of the controlled MPE and less than 1% of the uncontrolled MPE levels. When necessary for personnel to work on the tower/s, transmissions will be reduced or terminated to protect those people from RF levels in excess of FCC guidelines.

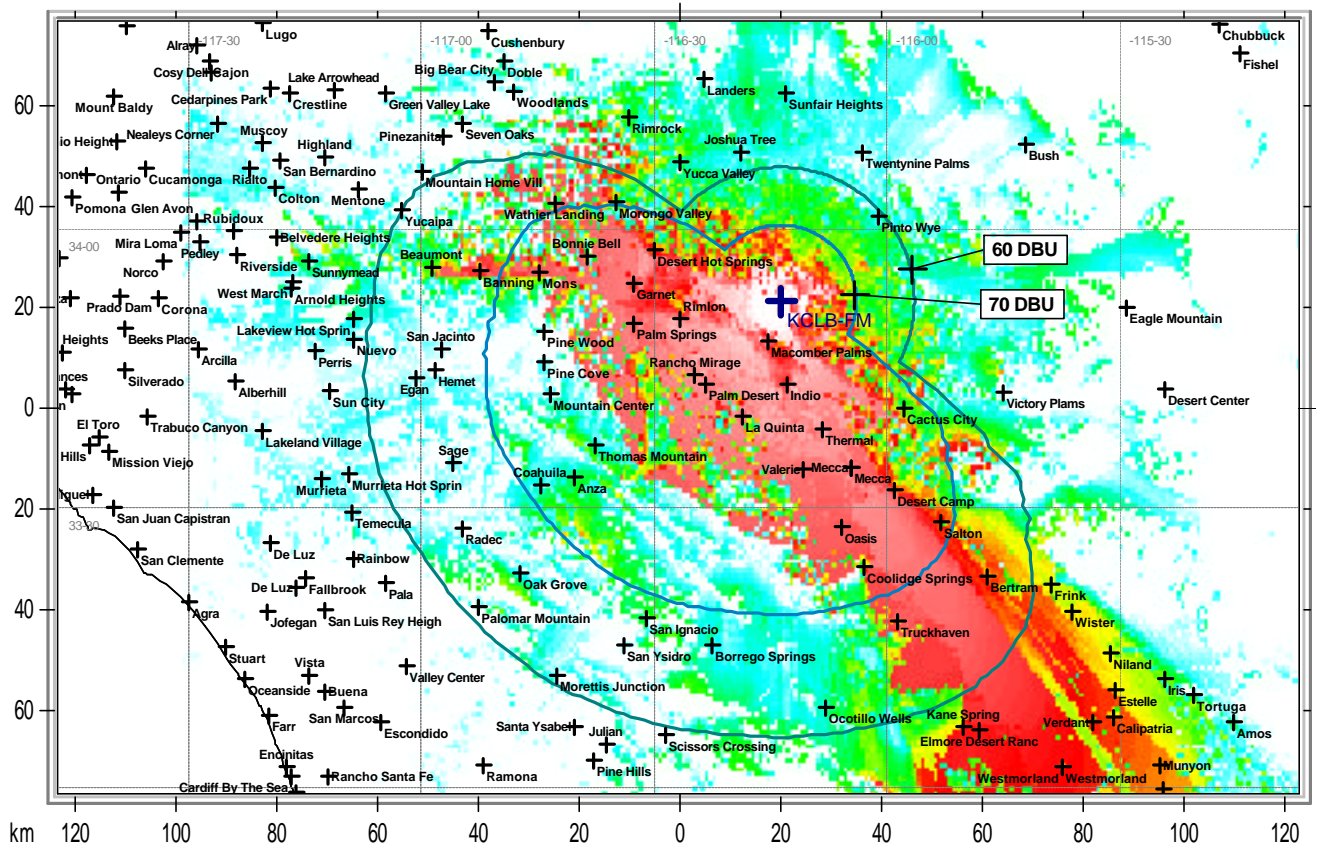
## Power Density vs Distance



Office of Engineering and Technology

Distance (m):	<input type="text" value="200"/>	Antenna Type:	<input type="text" value="ERI or JAMPRO JBCP 'Rototiller' (EPA)"/>
Horizontal ERP (W):	<input type="text" value="50000"/>	Number of Elements:	<input type="text" value="10"/>
Vertical ERP (W):	<input type="text" value="50000"/>	Element Spacing:	<input type="text" value=".5"/>
Antenna Height (m):	<input type="text" value="48"/>		

## LONGELY-RICE PROPAGATION



MCC RADIO, LLC



State Borders      Lat/Lon Grid