

FM MODEL
Calvary Chapel of Twin Falls, Inc.
KVIR Bullhead City, AZ BMPED-20140303ABA
RF Statement and Graphs
April 2014

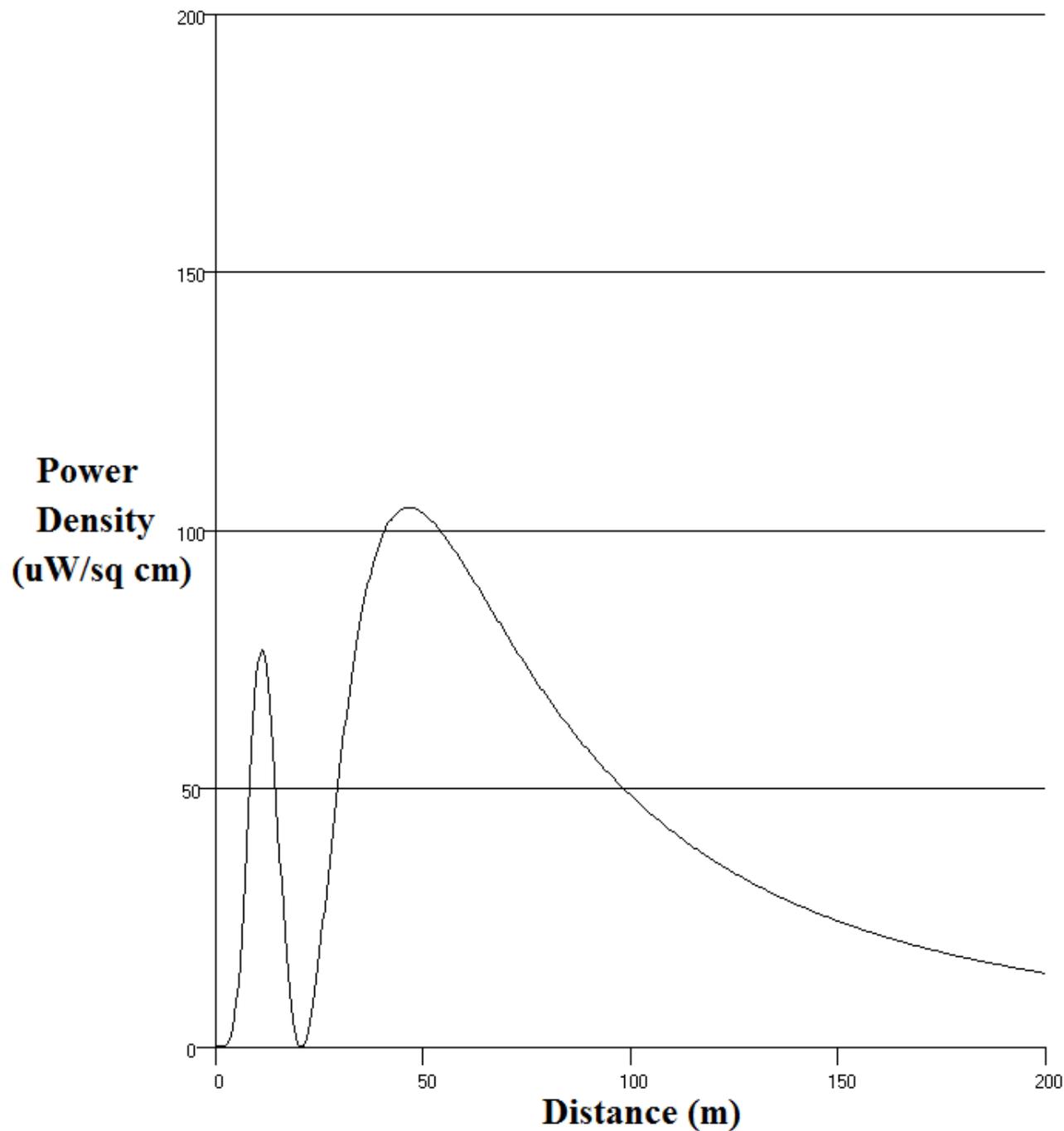
The Proposed will operate on FM Channel 210C0 with a maximum effected radiated power of 18kW Vertical, located at 14 meters AGL, using a 4 bay PSIFMV-4-HWS-DA. The instant application was evaluated with a version of the Commission's own FMMODEL program.

Appendix C of OST Bulletin No. 65 (second edition) specifies the maximum radiation in the 30 MHz to 300 MHz region should be limited to 1000 $\mu\text{w}/\text{cm}^2$ for occupational/controlled exposure and 200 $\mu\text{w}/\text{cm}^2$ for general population/uncontrolled exposure.

Call	Emissions	Occupational	General
Proposed	104.374 $\mu\text{w}/\text{cm}^2$ @ 46.8 meters	10.4 %	52.2 %

All appropriate steps to insure that workers, who climb this tower will not be exposed to levels of non ionizing radiation, will be taken. These steps include a reduction in power or cessation of operation, as appropriate, when work becomes necessary on the tower in the area where the power density levels are in excess of the **permitted level for controlled exposure.**

Power Density vs Distance



Modified from FMModel, a program written by the FCC Office of Engineering and Technology

Distance(m):	<input type="text" value="200"/>	Antenna Type:	<input type="text" value="Vertical Dipole"/>	KVIR
Horizontal ERP(kW):	<input type="text" value="0"/>	Number of Elements:	<input type="text" value="4"/>	104.374 $\mu\text{W}/\text{sq cm}$
Vertical ERP(kW):	<input type="text" value="18"/>	Element Spacing:	<input type="text" value="5"/>	at 46.8 Meters
Antenna Height (m):	<input type="text" value="14"/>	10.4% of Occupational Limit 52.2% of General Limit		