

**Exhibit 22 Page 1**  
**Christian Ministries of the Valley, Inc.**  
**Environmental Assessment**  
**Brownfield, Texas**

The proposed antenna construction does not require any action covered by FCC R&R 1.1307(a).

The proposed facility will not be located in an officially designated wilderness area, nor will it be located in an officially designated wildlife preserve.

The proposed facility will not affect listed threatened or endangered species or designated critical habitats; nor is it likely to jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats, as determined by the Secretary of the Interior pursuant to the Endangered Species Act of 1973.

The proposed facility will not affect districts, sites, buildings, structures or objects, significant in American history, architecture, archeology, engineering or culture, that are listed, or are eligible for listing, in the National Register of Historic Places. (See 16 USC 470w(5); 36 CFR Parts 60 and 800.)

The proposed facility will not:

- (1) Affect Indian religious sites;
- (2) Be located in a flood plain;
- (3) Involve significant change in surface features (e.g., wetland fill, deforestation or water diversion);
- (4) be equipped with high intensity white lights which are to be located in residential neighborhoods.

**Exhibit 22 Page 2**  
**Christian Ministries of the Valley, Inc.**  
**Environmental Assessment**  
**Brownfield, Texas**

The following environmental assessment has been prepared as required by FCC R&R 1.1307(b).

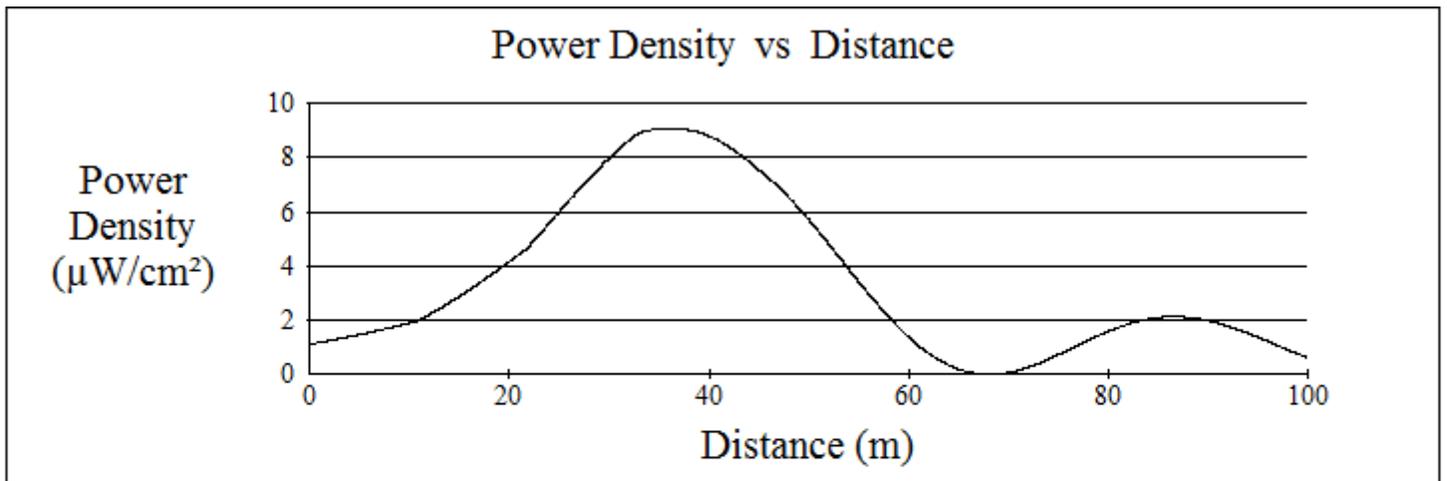
The applicant proposes facilities of 50.0 kilowatts effective radiated power horizontal and vertical polarization with an antenna center of radiation 125 meters (approx. 410 feet) above ground level.

The power density for 50.0 kilowatts at 125 meters at a vertical radiation angle of 0 degrees is 0.0090798 milliwatts per centimeter squared. Radiation at this location is within ANSI/FCC standards. The FCC FM Model was utilized to calculate the ground-level radiation and Figure 1 of this exhibit is the graph illustrating compliance.

For members of the general public, exposure to non-ionizing radiation above the power density level of 0.20 milliwatts per centimeter squared will begin to occur at a distance of less than 29 meters (approx. 95 feet) from the antenna radiation center.

The facility will be shut down when equipment maintenance would require workers to be exposed to levels of non-ionizing radiation in excess of 1.0 milliwatts per centimeter squared. This would occur at a distance of less than 14 meters (approx. 46 feet) from the antenna radiation center.

**Exhibit 22 Figure 1**  
**Christian Ministries of the Valley, Inc.**  
**RF Exposure**  
**Brownfield, Texas**



Office of Engineering and Technology

Distance (m):     Antenna Type:

Horizontal ERP (W):     Number of Elements:

Vertical ERP (W):     Element Spacing:

Antenna Height (m):

**Maximum Value of Graph.**

The Max Power Density was found to be 9.07985486046252 µW/cm<sup>2</sup> at 36.125 meters.

Note: Graph resolution is 4000 points.