

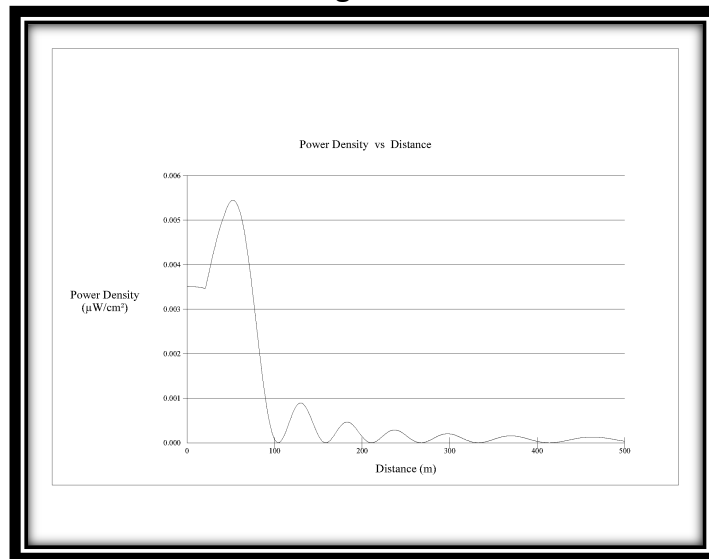
Environmental Protection Statement KNLV FM C1 Application

An analysis of the proposed KNLV FM site was performed using the Commission's FM Model program. The proposed antenna is a 12 bay ERI SHP-10AC. This one wavelength spaced antenna has a maximum ERP of 100 kW. The center of radiation of the antenna will be 243 meters above ground. The 12 bay antenna was analyzed using the following parameters.

Horizontally Polarized Radiation	100 kW
Vertically Polarized Radiation	100 kW
Distance from Center of Radiation	
Downward to 2 meters AG	241 meters
Type of Antenna	ERI SHP-12AC
Number of Antenna Elements	12
Antenna Element Spacing	1 λ

The following Figure 1 was produced using the FCC FM Model:

Figure 1



Maximum Value: 5.443 $\mu\text{W}/\text{cm}^2$.

This configuration produces a maximum of 5.443 microwatts per square centimeter at 2 meters above ground directly at a distance of approximately 52 meters out from the base of the tower. This is 2.72% of the 200 microwatts per square centimeter allowed for uncontrolled exposure. The general public is not allowed near structure. The site will be fenced and clearly marked. The general public will not be exposed to power density levels exceeding the allowed exposure value. Maintenance personnel will be fully informed of the antenna and safety precautions will be taken when working near the structure.

The applicant certifies that it, in coordination with any other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site from radio frequency electromagnetic exposure in excess of FCC guidelines.

This KNLV FM proposal has no significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments. Therefore, this proposal is excluded from environmental processing.

A handwritten signature in cursive script that reads "Charles F. Ellis".

Charles F. Ellis PE
Ellis Engineering
September 24, 2015