

NEIR STUDY - KQRP-LP PROPOSED

The Effective Radiated Power for proposed will be 100 watts. The antenna will be located on private property, on a large rural lot that also has a house on it. The house is located over a 100 feet away. The proposed tower resides in the back of the partitioned lot, approximately 15 feet from the back of a storage building. The partitioned space is not used for any regular activities.



The OET program FM Model for Windows, Version 2.10 Beta was used to determine the maximum predicted RF exposure. The settings used were:

Antenna: Phelps-Dodge "Ring Stub" or Dipole (EPA)
Horizontal ERP (W): 100
Vertical ERP (W): 100
Antenna Height (m): 12.2
Number of Elements: 1
Element Spacing: 1

A Phelps-Dodge "Ring Stub" or Dipole (EPA) was utilized as worst-possible scenario antenna as the antenna chosen was not available on the OET program.

Using these settings, the maximum predicted RF exposure for a human standing on the ground would be 38.6 $\mu\text{W}/\text{cm}^2$ at 2.8 m. This represents 19.4% of the Maximum Permissible Exposure (MPE) of 200

$\mu\text{W}/\text{cm}^2$ for uncontrolled environments. There are no other sources of RF energy on the structure or in the vicinity.

The site is an existing structure located behind an existing fence that partitions the residential area (private property) from the unused lot. In addition, a secondary fence will be constructed directly around the tower. If the FCC wants, direct readings can be taken.

The site will have a sign all necessary RF exposure hazards to tower climbers posted. If any work needs to be done around the structure the RF power will be temporarily shut off.