

Human exposure to excess levels of radiofrequency radiation

The proposed facility will have a center of radiation of 59 meters (187 feet) with 200 watts H and V at 97.1 MHz. According to OET 65, “Applicants and licensees should be able to calculate, based on considerations of frequency, power and antenna characteristics the distance from their transmitter where their signal produces an RF field equal to, or greater than, the 5% threshold limit.

As can be seen below the proposed facility’s maximum contribution to RF on the site is 0.0013 mW/cm² at a distance of 57 meters from the antenna, approximately 2 meters above ground which is as close as a human would be to the antenna. This is less than 1.0% of the uncontrolled (public) exposure limit of .205 mw/cm².

Licensee will reduce power of the proposed translator as necessary for safe tower work within the parameters of OET 65.

Frequency of Operation : 97.1 MHz

Average Power at Antenna : 200 watts H 200 watts V

Distance from Antenna : 59.000 meters (187 feet)

Estimated Power Density : 0.0013 mW/cm²

Ground Reflections : No