

Human exposure to excess levels of radiofrequency radiation

The proposed facility will use the existing 1-bay circularly polarized antenna. 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 0.004 mW/cm² at a distance of 24 meters from the antenna, approximately 2 meters above ground which is as close as a human would be to the antenna. This is approximately 2.0% of the uncontrolled (public) exposure limit of .205 mw/cm².

There is one other transmitter on this facility. WRHE-LP runs 7 watts of RF and 3 watts ERP on 98.9 at a higher elevation on the tower. The contribution of this facility is virtually nil and no RF exposure study was necessary..

The proposed facility complies with the requirements of OET 65.

Licensee will fully cooperate with other site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site.

Frequency of Operation : 97.100 MHz

Average Power at Antenna : 214.000 Watts

Antenna Gain : .5

Distance from Antenna : 24.000 meters (78.740 feet)

Estimated Power Density : 0.004 mW/cm²

Ground Reflections : No