

Newberry, SC Proposed FM Translator RF Analysis

Human exposure to excess levels of radiofrequency radiation

The proposed facility will operate with 250 watts ERP at 60 meters above ground. 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 0.0016 mW/cm² at a distance of 58 meters from the antenna, approximately 2 meters above ground which is as close as a human would be to the antenna. This is approximately 0.8% of the uncontrolled (public) exposure limit of .205 mw/cm².

Licensee will reduce power for both the proposed translator and the supporting AM broadcast tower as necessary for safe tower work within the parameters of OET 65.

Frequency of Operation : 107.100 MHz

Average Power at Antenna : 250 watts H 250 watts V

Distance from Antenna : 58.000 meters (190 feet)

Estimated Power Density : 0.0016 mW/cm²

Ground Reflections : No