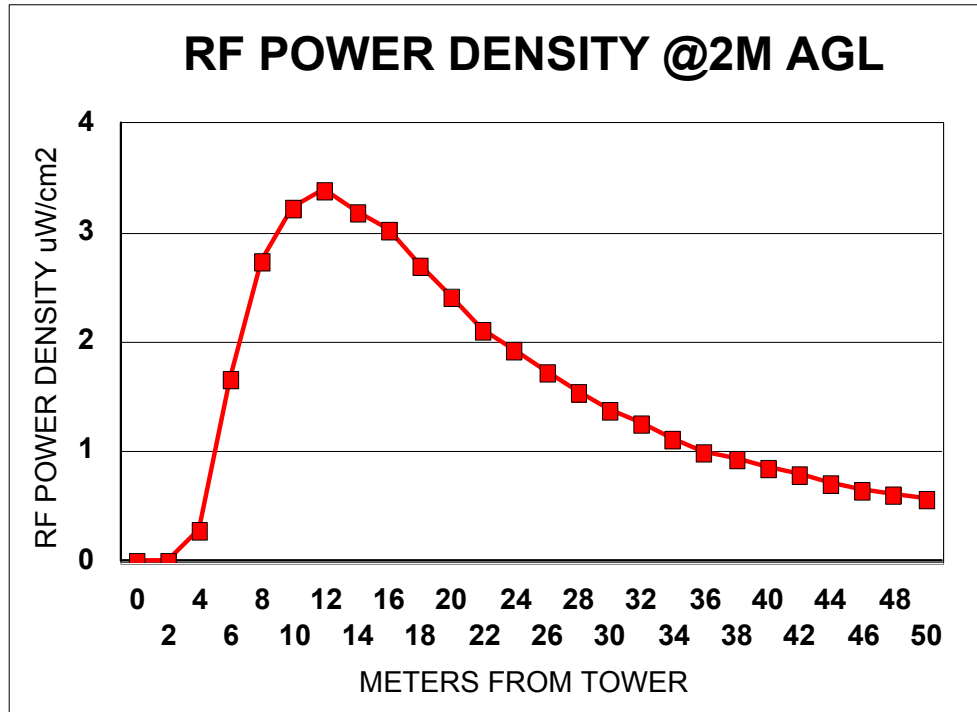


EXHIBIT 16

NON-IONIZING ELECTROMAGNETIC RADIATION (NIER) ANALYSIS

This application proposes using the existing installed Scala HDCA-5EB 5-element yagi antenna mounted 9 meters AGL, with vertical polarization. Using the appropriate formulae contained in OET Bulletin 65 and the actual factory-supplied vertical pattern data, the exposure 2m AGL to a standing human is plotted thusly:



The maximum RF exposure for a human standing on the ground is predicted to be $3.4\mu\text{W}/\text{cm}^2$, at 12 meters from the tower base. This corresponds to 1.7% of the maximum exposure level for uncontrolled environments. §1.1307(b)(3) waives the need for an Environmental Assessment when the predicted exposure levels would be less than 5% of the FCC limits. Thus, the proposed facility is in compliance with this section, and no further analysis is required. Public access to the site will be properly restricted. When tower climbing becomes necessary, power will be reduced or operation will cease in coordination with other emitters co-located and nearby, as necessary, to prevent exposure in excess of FCC limits.