

Environmental Effects

Educational Media Foundation (“EMF”) certifies that W256CA complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

The RF worksheet in the Instructions to form 303-S was unusable to determine compliance for this facility because the facility is co-located with other AM broadcast facilities

Co-located AM station WCPT Willow Springs, IL operates at 5.8 kW via a 7 tower array. Each tower is 63° (0.175λ). The protective fence installed around each tower is located farther from the tower than the distance required by Table 1 of OET-65, Supplement A.

EMF used RFHAZ, a commercial software package created by V-Soft Communications, to determine compliance for this site. Using a worst-case “ring-stub” type antenna for calculations, W256CA’s maximum contribution to the site is 0.024μW/cm², which is 0.012% of the worst-case uncontrolled (public) exposure limit of 200μW/cm².

Based on this evaluation, W256CA is only 0.012% of the public (uncontrolled) exposure limits, and co-located WCPT is adequately fenced. Therefore, W256CA fully complies with the FCC’s maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.