

W35BB Environmental Statement

Site Environmental Issues

Dublin Broadcasters, LLC proposes to build a new 106.4 meter tower near the city of Dublin, GA. The W35BB antenna will be mounted with center of radiation at 97.5 meters above ground. There are no other RF facilities presently proposed for this tower.

OET Bulletin 65 Compliance

A formula for the power density of a DTV station is:

$$S = \frac{(33.4)F^2(ERP)}{R^2}$$

where:

S = highest power density in microwatts/sq.cm predicted at ground level

F = typical relative field factor in the downward direction (-60 to -90 elevation)

R = distance from ground to center of radiation in meters

ERP = Effective Radiated Power in watts

Based on an antenna form factor of 1, a worst case scenario, an ERP of 15.0 kW and a minimum distance to 2 meters above ground of 95.5 Meters, the power density at ground level is 54.93 $\mu\text{W}/\text{cm}^2$.

Based on the lower frequency of Channel 35, 596.0 MHz, the OET Bulletin 65 limits for uncontrolled exposure at that frequency is 397.3 $\mu\text{W}/\text{cm}^2$. Therefore, W35BB at 2 meters above ground level has a power density that is 13.8% of the maximum value allowed and poses no non-ionizing radiation hazard to the general public. There are no other significant sources of RF radiation at the site. The site will be fenced with warning signs.

The W35BB digital facility meets all requirements for both controlled and uncontrolled exposure. In addition, the applicant also certifies that, in coordination with any other users of the site, it will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

The proposed tower will be properly vetted for all environmental issues and will be registered.