

ENVIRONMENTAL AND RADIO FREQUENCY EXPOSURE STATEMENT
FOX TELEVISION STATIONS, LLC
MINOR MODIFICATION OF CONSTRUCTION PERMIT FILE NUMBER 0000034527
WRBW, ORLANDO, FL
GRANTED CP: CH 28, 1000 KW(H&V), NON-DIRECTIONAL, 421.0 m AGL
PROPOSED: CH 28, 1000 KW(H), 826 KW(V), NON-DIRECTIONAL, 439.2 m AGL

The proposed modification of a construction permit for WRBW, file number 0000034527, includes changing the antenna center of radiation from 421 meters to 439.2 meters above ground level. The location of the antenna remains the same and will be mounted on a tower bearing the FCC Antenna Registration Number of 1032097. No increase of the overall height of the structure is being proposed and, therefore, will not result in any environmental impact. It is also being proposed to change the antenna polarization from circular to elliptical, resulting a slight reduction in the radiated field in the vertical plane from 1000 kW to 826 kW.

The WRBW facility, operating on channel 28, was evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The proposed radiation center for the antenna that was used in the analysis was 439.2 meters above ground level. The proposed operation was evaluated using Far-Field Equation (1) on page 30 of Supplement A to OET Bulletin No. 65 (August 1997). The ERP utilized in the calculations was set to the maximum ERP value of 1826 kW which is the total power radiated in both the horizontal and vertical planes. The elevation-plane antenna relative field values ["F" in Equation (1)] were those published by the manufacturer for the specified antenna. The maximum calculated power density at 2 meters (6.6 feet) above ground level is 0.0004 mW/cm² which is 0.02% of the FCC's recommended limit of 1.86 mW/cm² for an occupational/controlled environment and 0.11% of 0.37 mW/cm² for general public/uncontrolled exposure.

The total contribution of all nearby, existing and the proposed facilities was also evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. Total contribution was calculated to be within the allowable exposure limit for both workers and the general public.

Access to the transmitting tower and any radio frequency generating equipment is restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down.