

ENVIRONMENTAL AND RADIO FREQUENCY EXPOSURE STATEMENT
GUENTER MARKSTEINER
MINOR MODIFICATION OF CONSTRUCTION PERMIT
FCC FILE NUMBER 0000054428
WZDT-LD, NAPLES, FL
CP: CH 36, 15 KW, NON-DIRECTIONAL, 67.4 m AGL
PROPOSED: CH 36, 15 KW, DIRECTIONAL, 93.0 m AGL

The proposed modification of a construction permit granted to WZDT-LD, file number 0000054428, will not involve any changes to the current tower location or height as stated in Antenna Structure Registration number 1038046 and, therefore, will not result in any environmental impact. The antenna will be side mounted on the structure.

The WZDT-LD facility, operating on channel 36, was evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the antenna is located 93 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 30 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 0.0002 mW/cm² which is 0.01% of the FCC's recommended limit of 2.02 mW/cm² for an occupational/controlled environment and 0.05% of 0.40 mW/cm² for general public/uncontrolled exposure.

The total contribution of all nearby, existing 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 well within the allowable exposure limit for both workers and the general public.

Access to the tower where the transmitting antenna is located and to any radio frequency generating equipment is restricted and will be appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas, 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 station is at reduced power or shut down.