

Radiofrequency Electromagnetic Field Exposure

The proposed WCVF-DT facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed antenna is located 303.3 meters above ground level with an ERP of 160 kW. A conservative relative field value of 0.15 was assumed for the antenna's downward radiation. The calculated power density at a point 2 meters (6.6 feet) above ground level is 0.0013 mW/cm^2 . This is less than 1% of the FCC's recommended limit of 0.43 mW/cm^2 for channel 42 for an "uncontrolled" environment. Access to the transmitting site will be restricted and appropriately marked with warning signs. As this will be a multi-user site, an agreement will control access to the site. 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. The proposed WCVF-DT operation appears to be otherwise categorically excluded from environmental processing.