

Evaluation of Environmental Radio Frequency emission hazard For Digital UHF TV

For **W45BT**

Input Data

Frequency	559	mhz
Digital ERP watts	6320	watts
Antenna Vertical Field Factor	0.23	max for all depression angles from 12 degrees to 90 degrees
RCAGL	55	meters
RCAGL less 2 meters	53	meters

Calculations

Exposure Limits from OET65 Table 1

General Population Limit 372.666667 **uW/cm2**

Occupational Limit 1863.33333 **uW/cm2**

Power Density per OET65a equation 2 3.97527775 **uW/cm2**

The calculated power density using OET 65A equation 2 is far below the exposure limits calculated from OET 65A table 1 anywhere near the tower.

MAH Using OET65a equation 3

general population 5.47393119 **meters**

occupational 2.44801645 **meters**

Occupational and General Population Minimum Antenna heights using OET 65A equation 3 are well below the actual antenna height.