

Environmental Protection

The proposed facility is to be built using a 1-bay horizontally polarized antenna on a rooftop with limited access.

As can be seen in Exhibit 17-A, the maximum theoretical RF value would be $77.1 \mu\text{W}/\text{cm}^2$ at a distance of 10 meters from the tower, which is 38.6% of the $200 \mu\text{W}/\text{cm}^2$ permitted for public (uncontrolled) exposure, and 7.72% of the $1000 \mu\text{W}/\text{cm}^2$ permitted for worker (controlled) exposure.

Therefore, the proposed facility complies with the requirements of OET 65.

EMF will fully cooperate with other future site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.

Specific Antenna RF Power Density Calculator

Based on Equation 10 of OET-65
Exhibit 17-A / Detailed Report

ERP 0.25 kW % of OET-65
Height above ground 4.0 meters 38.6% Uncontrolled
Height above head 2.0 meters 7.7% Controlled
Antenna Brand Scala
Antenna Model CLFM-H

Horizontal distance from tower (meters)	Angle (°)	Distance (m)	Field	Power (W)	Power Density (uW/cm2)
0	90	2.0	0.03	7.5	1.879
10	11	10.2	0.98	245	77.109
20	6	20.1	1	250	20.668
30	4	30.1	1	250	9.237
40	3	40.0	1	250	5.206
50	2	50.0	1	250	3.335
60	2	60.0	1	250	2.317
70	2	70.0	1	250	1.703
80	1	80.0	1	250	1.304
90	1	90.0	1	250	1.030
100	1	100.0	1	250	0.835

