

**Environmental Protection**

There are two main factors that need to be addressed in order to make sure that the environment around a proposed facility is protected.

**1) Significant affects to the environment.**

EMF's proposed facility will be constructed on the roof of an existing, non-historic, building. Therefore, there will be no affect on the surrounding environment.

**2) Human exposure to excess levels of radiofrequency radiation.**

The proposed facility is to be built using a vertically polarized antenna, 11 meters above the rooftop of a high rise condominium. In order to be sure that no RF field above the public limit will be produced in an occupied area, the RFR was calculated for the specific antenna with an above ground height of 11 meters.

As can be seen in Exhibit 22-A, the maximum theoretical RF value would be 195.877  $\mu\text{W}/\text{cm}^2$  at a distance of 8 meters from the antenna, which is 97.9% of the 200  $\mu\text{W}/\text{cm}^2$  permitted for public (uncontrolled) exposure, and 19.6% 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.

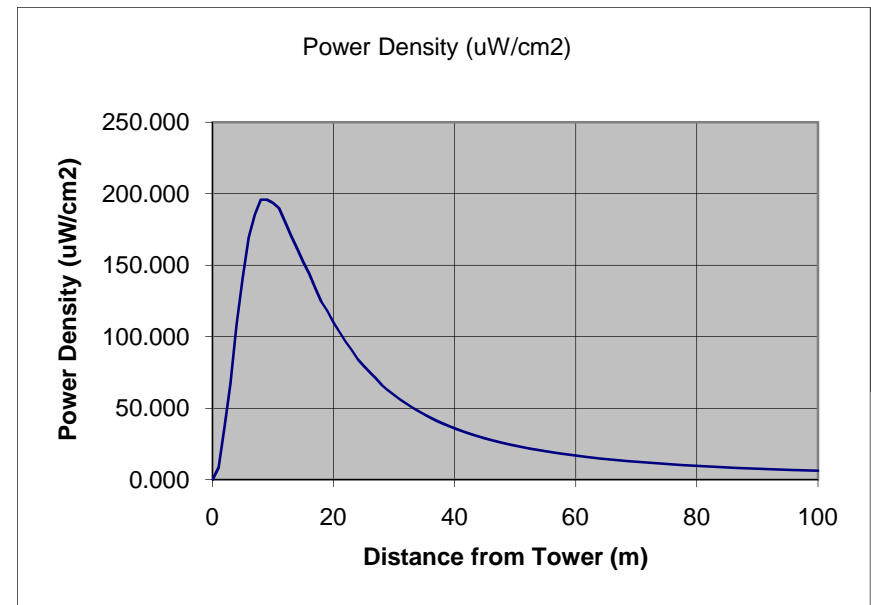
## Specific Antenna RF Power Density Calculator

Based on Equation 10 of OET-65

### Detailed Report

<b>ERP</b>	1.9 kW	% of OET-65
<b>Height above ground</b>	11.0 meters	97.9% Uncontrolled
<b>Height above head</b>	9.0 meters	19.6% Controlled
<b>Antenna Brand JAM</b>		
<b>Antenna Model 0</b>		

Horizontal distance from tower (meters)	Angle (°)	Distance (m)	Field	Power (W)	Power Density (uW/cm <sup>2</sup> )
0	90	9.0	1E-04	0.19	0.000
1	84	9.1	0.105	199.5	8.532
2	77	9.2	0.225	427.5	37.796
3	72	9.5	0.309	587.1	67.325
4	66	9.8	0.407	773.3	108.372
5	61	10.3	0.485	921.5	140.824
6	56	10.8	0.559	1062.1	169.488
7	52	11.4	0.616	1170.4	185.233
8	48	12.0	0.669	1271.1	195.877
9	45	12.7	0.707	1343.3	195.805
10	42	13.5	0.743	1411.7	193.553
11	39	14.2	0.777	1476.3	189.667
12	37	15.0	0.799	1518.1	180.057
13	35	15.8	0.819	1556.1	170.266
14	33	16.6	0.839	1594.1	161.267
15	31	17.5	0.857	1628.3	152.314
16	29	18.4	0.875	1662.5	144.174
17	28	19.2	0.883	1677.7	133.727
18	27	20.1	0.891	1692.9	124.394
19	25	21.0	0.906	1721.4	117.851
20	24	21.9	0.914	1736.6	110.217
21	23	22.8	0.921	1749.9	103.121
22	22	23.8	0.927	1761.3	96.519
23	21	24.7	0.934	1774.6	90.754
24	21	25.6	0.934	1774.6	84.261
25	20	26.6	0.94	1786	79.424



26	19	27.5	0.946	1797.4	75.022
27	18	28.5	0.951	1806.9	70.856
28	18	29.4	0.951	1806.9	66.351
29	17	30.4	0.956	1816.4	62.905
30	17	31.3	0.956	1816.4	59.122
31	16	32.3	0.961	1825.9	56.244
32	16	33.2	0.961	1825.9	53.038
33	15	34.2	0.966	1835.4	50.614
34	15	35.2	0.966	1835.4	47.872
35	14	36.1	0.97	1843	45.719
36	14	37.1	0.97	1843	43.362
37	14	38.1	0.97	1843	41.179
38	13	39.1	0.974	1850.6	39.477
39	13	40.0	0.974	1850.6	37.580
40	13	41.0	0.974	1850.6	35.814
41	12	42.0	0.978	1858.2	34.449
42	12	43.0	0.978	1858.2	32.899
43	12	43.9	0.978	1858.2	31.450
44	12	44.9	0.978	1858.2	30.093
45	11	45.9	0.982	1865.8	29.058
46	11	46.9	0.982	1865.8	27.854
47	11	47.9	0.982	1865.8	26.723
48	11	48.8	0.982	1865.8	25.659
49	10	49.8	0.985	1871.5	24.807
50	10	50.8	0.985	1871.5	23.855
51	10	51.8	0.985	1871.5	22.957
52	10	52.8	0.985	1871.5	22.108
53	10	53.8	0.985	1871.5	21.305
54	9	54.7	0.988	1877.2	20.669
55	9	55.7	0.988	1877.2	19.944
56	9	56.7	0.988	1877.2	19.256
57	9	57.7	0.988	1877.2	18.602
58	9	58.7	0.988	1877.2	17.981
59	9	59.7	0.988	1877.2	17.391
60	9	60.7	0.988	1877.2	16.829
61	8	61.7	0.99	1881	16.359
62	8	62.6	0.99	1881	15.846
63	8	63.6	0.99	1881	15.357

64	8	64.6	0.99	1881	14.890
65	8	65.6	0.99	1881	14.444
66	8	66.6	0.99	1881	14.018
67	8	67.6	0.99	1881	13.610
68	8	68.6	0.99	1881	13.219
69	7	69.6	0.993	1886.7	12.923
70	7	70.6	0.993	1886.7	12.563
71	7	71.6	0.993	1886.7	12.217
72	7	72.6	0.993	1886.7	11.885
73	7	73.6	0.993	1886.7	11.566
74	7	74.5	0.993	1886.7	11.261
75	7	75.5	0.993	1886.7	10.966
76	7	76.5	0.993	1886.7	10.684
77	7	77.5	0.993	1886.7	10.412
78	7	78.5	0.993	1886.7	10.150
79	6	79.5	0.995	1890.5	9.938
80	6	80.5	0.995	1890.5	9.694
81	6	81.5	0.995	1890.5	9.459
82	6	82.5	0.995	1890.5	9.232
83	6	83.5	0.995	1890.5	9.014
84	6	84.5	0.995	1890.5	8.803
85	6	85.5	0.995	1890.5	8.599
86	6	86.5	0.995	1890.5	8.403
87	6	87.5	0.995	1890.5	8.213
88	6	88.5	0.995	1890.5	8.029
89	6	89.5	0.995	1890.5	7.851
90	6	90.4	0.995	1890.5	7.680
91	6	91.4	0.995	1890.5	7.513
92	6	92.4	0.995	1890.5	7.352
93	6	93.4	0.995	1890.5	7.197
94	5	94.4	0.996	1892.4	7.060
95	5	95.4	0.996	1892.4	6.913
96	5	96.4	0.996	1892.4	6.771
97	5	97.4	0.996	1892.4	6.634
98	5	98.4	0.996	1892.4	6.500
99	5	99.4	0.996	1892.4	6.371
100	5	100.4	0.996	1892.4	6.245