

Human exposure to excess levels of radiofrequency radiation

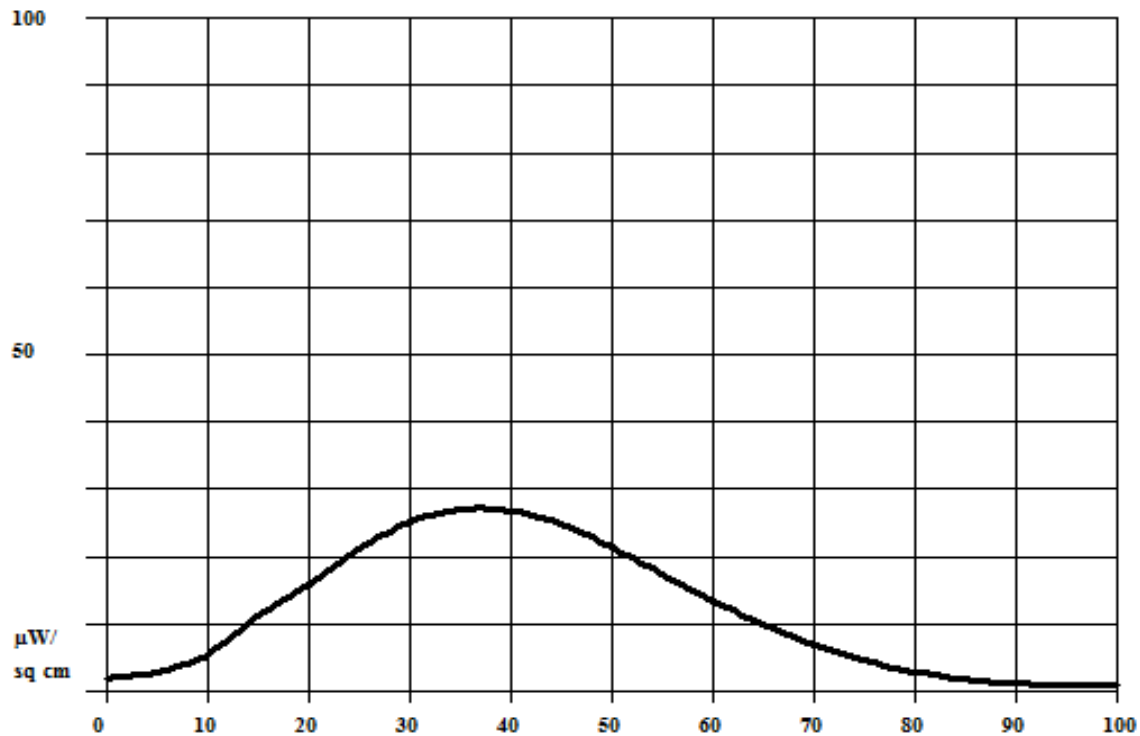
The proposed facility is to be built using a 2-bay circularly polarized full-wave spaced antenna.

As can be seen in Exhibit 24-A, the proposed facility's maximum contribution to RF on the site is $26.52 \mu\text{W}/\text{cm}^2$ at a distance of 37 meters from the tower, which is 13.3% of the uncontrolled (public) exposure limit.

Because the proposed facility is below the $200 \mu\text{W}/\text{cm}^2$ limit for uncontrolled exposure at any point, the proposed facility complies with the requirements of OET 65.

FLM will fully cooperate with other 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.

Environment = Uncontrolled, Maximum = 200 $\mu\text{W}/\text{sq cm}$
 Shively 6810-Type 6, 2 Bays, Spac= 1, H=9.5 kW, V=9.5 kW, 56 MAG



HORZ. DISTANCE FROM FM RADIATOR VS POWER DENSITY (Microwatt/Square cm)
 Dist(Meters) PD (H) PD (V) Total($\mu\text{W}/\text{cm}^2$) Percent Max.

Dist(Meters)	PD (H)	PD (V)	Total($\mu\text{W}/\text{cm}^2$)	Percent Max.
0	0.65	0.36	1.01	0.5
1	0.79	0.36	1.15	0.6
2	0.94	0.36	1.30	0.7
3	1.10	0.36	1.47	0.7
4	1.28	0.36	1.64	0.8
5	1.47	0.38	1.85	0.9
6	1.66	0.61	2.27	1.1
7	1.87	0.88	2.75	1.4
8	2.08	1.20	3.29	1.6
9	2.31	1.57	3.87	1.9
10	2.56	1.99	4.55	2.3
11	2.99	2.56	5.55	2.8
12	3.45	3.19	6.64	3.3
13	3.93	3.87	7.80	3.9
14	4.43	4.60	9.03	4.5
15	4.94	5.37	10.31	5.2
16	5.37	5.87	11.24	5.6
17	5.81	6.37	12.17	6.1
18	6.24	6.86	13.10	6.6
19	6.67	7.35	14.02	7.0
20	7.09	7.84	14.93	7.5
21	7.61	8.37	15.98	8.0
22	8.20	8.92	17.12	8.6
23	8.77	9.46	18.23	9.1
24	9.32	9.98	19.31	9.7
25	9.86	10.48	20.33	10.2

Dist(Meters)	PD (H)	PD (V)	Total(uW/cm2)	Percent Max.
26	10.37	10.94	21.31	10.7
27	10.85	11.34	22.18	11.1
28	11.30	11.69	22.99	11.5
29	11.71	12.01	23.72	11.9
30	12.09	12.30	24.38	12.2
31	12.42	12.54	24.96	12.5
32	12.72	12.75	25.46	12.7
33	12.94	12.91	25.85	12.9
34	13.11	13.04	26.14	13.1
35	13.23	13.12	26.35	13.2
36	13.31	13.17	26.48	13.2
37	13.35	13.17	26.52	13.3
38	13.35	13.14	26.49	13.2
39	13.31	13.07	26.38	13.2
40	13.21	12.96	26.17	13.1
41	13.06	12.82	25.88	12.9
42	12.88	12.65	25.53	12.8
43	12.67	12.44	25.11	12.6
44	12.43	12.21	24.64	12.3
45	12.17	11.96	24.12	12.1
46	11.88	11.68	23.55	11.8
47	11.57	11.37	22.94	11.5
48	11.22	10.99	22.20	11.1
49	10.85	10.59	21.44	10.7
50	10.48	10.19	20.66	10.3
51	10.09	9.78	19.87	9.9
52	9.70	9.37	19.06	9.5
53	9.30	8.96	18.25	9.1
54	8.89	8.54	17.44	8.7
55	8.49	8.13	16.62	8.3
56	8.09	7.72	15.81	7.9
57	7.67	7.33	15.01	7.5
58	7.27	6.94	14.21	7.1
59	6.86	6.56	13.43	6.7
60	6.47	6.19	12.66	6.3
61	6.08	5.82	11.91	6.0
62	5.71	5.46	11.17	5.6
63	5.34	5.12	10.46	5.2
64	4.99	4.78	9.76	4.9
65	4.64	4.45	9.09	4.5
66	4.31	4.13	8.45	4.2
67	3.99	3.83	7.82	3.9
68	3.68	3.53	7.22	3.6
69	3.39	3.25	6.64	3.3
70	3.11	2.98	6.09	3.0
71	2.84	2.73	5.57	2.8
72	2.59	2.48	5.07	2.5
73	2.35	2.26	4.60	2.3
74	2.12	2.04	4.16	2.1
75	1.91	1.84	3.75	1.9
76	1.71	1.65	3.36	1.7
77	1.53	1.47	3.00	1.5

Dist(Meters)	PD (H)	PD (V)	Total(uW/cm2)	Percent Max.
78	1.35	1.30	2.66	1.3
79	1.19	1.15	2.34	1.2
80	1.05	1.01	2.05	1.0
81	0.91	0.88	1.78	0.9
82	0.78	0.76	1.54	0.8
83	0.67	0.65	1.31	0.7
84	0.57	0.55	1.11	0.6
85	0.47	0.46	0.93	0.5
86	0.39	0.38	0.76	0.4
87	0.31	0.30	0.62	0.3
88	0.25	0.24	0.49	0.2
89	0.19	0.19	0.38	0.2
90	0.14	0.14	0.29	0.1
91	0.10	0.10	0.21	0.1
92	0.07	0.07	0.14	0.1
93	0.04	0.04	0.09	0.0
94	0.02	0.02	0.05	0.0
95	0.01	0.01	0.02	0.0
96	0.00	0.00	0.01	0.0
97	0.00	0.00	0.00	0.0
98	0.00	0.00	0.00	0.0
99	0.01	0.01	0.02	0.0
100	0.02	0.02	0.04	0.0