

**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 an existing tower, therefore it should have no adverse effect on the surrounding environment.

**2) 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 31-A, the maximum theoretical RF value would be 39.49  $\mu\text{W}/\text{cm}^2$  at a distance of 18 meters from the tower, which is 19.74% of the 200  $\mu\text{W}/\text{cm}^2$  permitted for public (uncontrolled) exposure, and 3.95% 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.

**Exhibit 31-A**  
**RF Analysis: WOKR Remsen, NY**

**WOKR**

**Site type:** Proposed

**Channel:** 228

**Class:** A

**ERP:** 3kw

**Antenna:** ERI

rototiller

2 bay

full wave

**COR AGL:** 27 m

**Polarization:** circular

Distance From Tower (m)	WOKR Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	8.2489	8.25	4.12
1	8.2375	8.24	4.12
2	8.2032	8.20	4.10
3	9.4654	9.47	4.73
4	11.5991	11.60	5.80
5	13.9493	13.95	6.97
6	16.7380	16.74	8.37
7	19.6131	19.61	9.81
8	22.3313	22.33	11.17
9	24.9150	24.91	12.46
10	27.3835	27.38	13.69
11	29.8339	29.83	14.92
12	31.9885	31.99	15.99
13	33.9761	33.98	16.99
14	35.8229	35.82	17.91
15	37.2110	37.21	18.61
16	38.3108	38.31	19.16
17	39.1675	39.17	19.58
18	39.4885	39.49	19.74
19	39.2227	39.22	19.61
20	37.8665	37.87	18.93
21	36.1892	36.19	18.09
22	34.2477	34.25	17.12
23	32.0834	32.08	16.04
24	29.7473	29.75	14.87
25	27.3302	27.33	13.67
26	24.8817	24.88	12.44
27	22.4460	22.45	11.22
28	19.9989	20.00	10.00
29	17.6539	17.65	8.83
30	15.4342	15.43	7.72
31	13.3573	13.36	6.68
32	11.4352	11.44	5.72
33	9.7084	9.71	4.85
34	8.1409	8.14	4.07
35	6.7274	6.73	3.36
36	5.4678	5.47	2.73
37	4.3593	4.36	2.18
38	3.3972	3.40	1.70
39	2.5667	2.57	1.28
40	1.8659	1.87	0.93
41	1.2966	1.30	0.65
42	0.8470	0.85	0.42
43	0.5053	0.51	0.25
44	0.2602	0.26	0.13
45	0.1012	0.10	0.05

Distance From Tower (m)	WOKR Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	0.0182	0.02	0.01
47	0.0016	0.00	0.00
48	0.0432	0.04	0.02
49	0.1357	0.14	0.07
50	0.2724	0.27	0.14
51	0.4470	0.45	0.22
52	0.6538	0.65	0.33
53	0.8874	0.89	0.44
54	1.1432	1.14	0.57
55	1.4168	1.42	0.71
56	1.7042	1.70	0.85
57	2.0019	2.00	1.00
58	2.3055	2.31	1.15
59	2.5997	2.60	1.30
60	2.8930	2.89	1.45
61	3.1835	3.18	1.59
62	3.4695	3.47	1.73
63	3.7497	3.75	1.87
64	4.0229	4.02	2.01
65	4.2881	4.29	2.14
66	4.5447	4.54	2.27
67	4.7920	4.79	2.40
68	5.0297	5.03	2.51
69	5.2573	5.26	2.63
70	5.4748	5.47	2.74
71	5.6819	5.68	2.84
72	5.8787	5.88	2.94
73	6.0651	6.07	3.03
74	6.2413	6.24	3.12
75	6.4109	6.41	3.21
76	6.5715	6.57	3.29
77	6.7223	6.72	3.36
78	6.8638	6.86	3.43
79	6.9960	7.00	3.50
80	7.1192	7.12	3.56
81	7.2337	7.23	3.62
82	7.3399	7.34	3.67
83	7.4379	7.44	3.72
84	7.5280	7.53	3.76
85	7.6106	7.61	3.81
86	7.6860	7.69	3.84
87	7.7544	7.75	3.88
88	7.8162	7.82	3.91
89	7.8715	7.87	3.94
90	7.9208	7.92	3.96
91	7.9642	7.96	3.98
92	8.0021	8.00	4.00
93	8.0347	8.03	4.02
94	8.0622	8.06	4.03
95	8.0850	8.08	4.04
96	8.1031	8.10	4.05
97	8.1170	8.12	4.06
98	8.1267	8.13	4.06
99	8.1326	8.13	4.07
100	8.1347	8.13	4.07