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 1-bay vertically polarized antenna.

As can be seen in Exhibit 17-A, the maximum theoretical RF value would be 78.71 $\mu W/cm^2$ at a distance of 4 meters from the tower, which is 35.33% of the 200 $\mu W/cm^2$ permitted for public (uncontrolled) exposure, and 3.53% of the 1000 $\mu W/cm^2$ 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 17-A
RF Analysis: K220FR, Thousand Oaks, CA

K220FR.P
Site type: Proposed
Channel: 220
Class: D
ERP: 0.25
Antenna: SCALA
EPA Type 1
1 bay

COR AGL: 15m
Polorization: Vertical

Distance From Tower (m)	K220FR.P Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	30.0688	30.07	15.03
1	31.0626	31.06	15.53
2	33.4207	33.42	16.71
3	35.3500	35.35	17.67
4	**35.3348**	**35.33**	**17.67**
5	34.7663	34.77	17.38
6	34.4008	34.40	17.20
7	34.1414	34.14	17.07
8	32.3693	32.37	16.18
9	30.8836	30.88	15.44
10	29.9188	29.92	14.96
11	28.3039	28.30	14.15
12	26.2128	26.21	13.11
13	24.2628	24.26	12.13
14	22.4548	22.45	11.23
15	20.7883	20.79	10.39
16	18.7981	18.80	9.40
17	17.0310	17.03	8.52
18	15.6384	15.64	7.82
19	15.5319	15.53	7.77
20	15.3587	15.36	7.68
21	15.1320	15.13	7.57
22	14.4914	14.49	7.25
23	13.6265	13.63	6.81
24	12.8269	12.83	6.41
25	12.0875	12.09	6.04
26	11.4023	11.40	5.70
27	10.7195	10.72	5.36
28	10.0913	10.09	5.05
29	9.5125	9.51	4.76
30	8.9784	8.98	4.49
31	8.4851	8.49	4.24
32	8.0287	8.03	4.01
33	7.5698	7.57	3.78
34	7.1402	7.14	3.57
35	6.7442	6.74	3.37
36	6.3784	6.38	3.19
37	6.0401	6.04	3.02
38	5.7268	5.73	2.86
39	5.4360	5.44	2.72
40	5.1659	5.17	2.58
41	4.9146	4.91	2.46
42	4.6736	4.67	2.34
43	4.4474	4.45	2.22
44	4.2365	4.24	2.12
45	4.0397	4.04	2.02

Distance From Tower (m)	K220FR.P Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	3.8558	3.86	1.93
47	3.6837	3.68	1.84
48	3.5225	3.52	1.76
49	3.3712	3.37	1.69
50	3.2292	3.23	1.61
51	3.0957	3.10	1.55
52	2.9700	2.97	1.48
53	2.8516	2.85	1.43
54	2.7399	2.74	1.37
55	2.6345	2.63	1.32
56	2.5350	2.54	1.27
57	2.4501	2.45	1.23
58	2.3693	2.37	1.18
59	2.2924	2.29	1.15
60	2.2190	2.22	1.11
61	2.1491	2.15	1.07
62	2.0824	2.08	1.04
63	2.0186	2.02	1.01
64	1.9577	1.96	0.98
65	1.8995	1.90	0.95
66	1.8438	1.84	0.92
67	1.7905	1.79	0.90
68	1.7394	1.74	0.87
69	1.6904	1.69	0.85
70	1.6434	1.64	0.82
71	1.5984	1.60	0.80
72	1.5551	1.56	0.78
73	1.5136	1.51	0.76
74	1.4736	1.47	0.74
75	1.4353	1.44	0.72
76	1.3983	1.40	0.70
77	1.3628	1.36	0.68
78	1.3286	1.33	0.66
79	1.2956	1.30	0.65
80	1.2639	1.26	0.63
81	1.2333	1.23	0.62
82	1.2037	1.20	0.60
83	1.1752	1.18	0.59
84	1.1477	1.15	0.57
85	1.1212	1.12	0.56
86	1.0960	1.10	0.55
87	1.0717	1.07	0.54
88	1.0481	1.05	0.52
89	1.0253	1.03	0.51
90	1.0033	1.00	0.50
91	0.9819	0.98	0.49
92	0.9613	0.96	0.48
93	0.9412	0.94	0.47
94	0.9218	0.92	0.46
95	0.9030	0.90	0.45
96	0.8847	0.88	0.44
97	0.8670	0.87	0.43
98	0.8498	0.85	0.42
99	0.8331	0.83	0.42
100	0.8169	0.82	0.41