

Environmental Protection

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

1) Significant effect to the environment.

EMF is currently investigating the site for the proposed new tower in order to ensure that the site will comply with all of the environmental conditions contained within Section 1.1306(a). The results of that assessment will be submitted to the Commission under separate cover.

2) Human exposure to excess levels of radiofrequency radiation.

The proposed facility is to be built using a six-bay, full-wave spaced, vertically polarized antenna or equivalent. The site is not shared with any other broadcast facilities.

As can be seen in the attached analysis (exhibit 22A), the maximum theoretical RF value would be 125.22 uW/cm^2 at a distance of 20 meters from the tower, which is only 62.61% of the 200 uW/cm^2 permitted for public (uncontrolled) exposure.

This application is in compliance with OET 65.

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

Therefore, this application is excluded from environmental processing, pursuant to Section 1.1306(b).

RF Analysis: Shafter, CA**KGLF****208****B****KGLF****Site type:** Application**Channel:** 208**Class:** B**ERP:** 50.0 kw**Antenna:** ERI

Dipole

6-bay

full wave

COR AGL: 111 m**Polarization:** Vertical

Distance From Tower (m)	KGLF Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	109.8204	109.82	54.91
1	110.3664	110.37	55.18
2	110.8953	110.90	55.45
3	111.4060	111.41	55.70
4	111.8970	111.90	55.95
5	112.3660	112.37	56.18
6	112.8106	112.81	56.41
7	113.2276	113.23	56.61
8	113.6133	113.61	56.81
9	113.9637	113.96	56.98
10	114.6107	114.61	57.31
11	116.0442	116.04	58.02
12	117.4296	117.43	58.71
13	118.7592	118.76	59.38
14	120.0247	120.02	60.01
15	121.2170	121.22	60.61
16	122.3266	122.33	61.16
17	123.3437	123.34	61.67
18	124.2579	124.26	62.13
19	125.0584	125.06	62.53
20	125.2167	125.22	62.61
21	124.5579	124.56	62.28
22	123.7711	123.77	61.89
23	122.8491	122.85	61.42
24	121.7855	121.79	60.89
25	120.5742	120.57	60.29
26	119.2097	119.21	59.60
27	117.6873	117.69	58.84
28	116.0032	116.00	58.00
29	114.1544	114.15	57.08
30	112.1096	112.11	56.05
31	109.8153	109.82	54.91
32	107.3603	107.36	53.68
33	104.7467	104.75	52.37
34	101.9782	101.98	50.99
35	99.0597	99.06	49.53
36	95.9976	96.00	48.00
37	92.7995	92.80	46.40
38	89.4748	89.47	44.74
39	86.0337	86.03	43.02
40	82.4882	82.49	41.24
41	79.0097	79.01	39.50
42	75.5386	75.54	37.77
43	71.9782	71.98	35.99
44	68.3444	68.34	34.17
45	64.6539	64.65	32.33

Distance From Tower (m)	KGLF Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	60.9244	60.92	30.46
47	57.1740	57.17	28.59
48	53.4215	53.42	26.71
49	49.6856	49.69	24.84
50	45.9855	45.99	22.99
51	42.3398	42.34	21.17
52	38.7170	38.72	19.36
53	35.0513	35.05	17.53
54	31.5314	31.53	15.77
55	28.1705	28.17	14.09
56	24.9803	24.98	12.49
57	21.9709	21.97	10.99
58	19.1509	19.15	9.58
59	16.5270	16.53	8.26
60	14.1041	14.10	7.05
61	11.8854	11.89	5.94
62	9.8723	9.87	4.94
63	8.0642	8.06	4.03
64	6.4590	6.46	3.23
65	5.0714	5.07	2.54
66	3.8695	3.87	1.93
67	2.8461	2.85	1.42
68	1.9951	2.00	1.00
69	1.3091	1.31	0.65
70	0.7790	0.78	0.39
71	0.3950	0.40	0.20
72	0.1462	0.15	0.07
73	0.0210	0.02	0.01
74	0.0070	0.01	0.00
75	0.0916	0.09	0.05
76	0.2619	0.26	0.13
77	0.5049	0.50	0.25
78	0.8065	0.81	0.40
79	1.1499	1.15	0.57
80	1.5243	1.52	0.76
81	1.9178	1.92	0.96
82	2.3192	2.32	1.16
83	2.7187	2.72	1.36
84	3.1070	3.11	1.55
85	3.4764	3.48	1.74
86	3.8198	3.82	1.91
87	4.1315	4.13	2.07
88	4.4069	4.41	2.20
89	4.6423	4.64	2.32
90	4.8351	4.84	2.42
91	4.9837	4.98	2.49
92	5.0873	5.09	2.54
93	5.1460	5.15	2.57
94	5.1608	5.16	2.58
95	5.1331	5.13	2.57
96	5.0652	5.07	2.53
97	4.9598	4.96	2.48
98	4.8200	4.82	2.41
99	4.6493	4.65	2.32
100	4.4514	4.45	2.23