

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 (tower ID 1250397) and will cause no adverse effects to the surrounding environment at the site.

2- Human exposure to excess levels of radiofrequency radiation.

The proposed facility is to be built using a 4-bay vertically polarized full-wave spaced antenna on the same site as the following:

Call	Channel	Status	City	FIN	Licensee / Permittee
KJMT	246C3	LIC	CALICO ROCK, AR	162375	MALVERN ENTERTAINMENT CORPORATION

See Exhibit 22-A for antennas that were specified by each licensee/permittee.

As can be seen in Exhibit 22A, the maximum theoretical RF value overall would be $49.36\mu\text{W}/\text{cm}^2$ at a distance of 12 meters from the tower, which is 24.68% of the $200\mu\text{W}/\text{cm}^2$ permitted for public (uncontrolled) exposure, and 4.94% 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.

RF Analysis: Melbourne, AR

KLRM

214

C3

KLRM

KJMT

Site type: Application

LIC

Channel: 214

246

Class: C3

C3

ERP: 7 kw

5.2 KW

Antenna: ERI

SHI

Dipole

4 bay

2 BAY

FULL WAVE

FULL WAVE

COR AGL: 67 M

101 M

Polarization: VERTICAL

CIRCULAR

Distance From Tower (m)	KLRM Facility	KJMT Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	42.1995	0.1703	42.37	21.18
1	42.5436	0.1830	42.73	21.36
2	42.8693	0.1964	43.07	21.53
3	43.1753	0.2104	43.39	21.69
4	43.4593	0.2250	43.68	21.84
5	43.7187	0.2403	43.96	21.98
6	44.0529	0.2561	44.31	22.15
7	44.9980	0.2725	45.27	22.64
8	45.9103	0.2895	46.20	23.10
9	46.7826	0.3101	47.09	23.55
10	47.6067	0.3482	47.95	23.98
11	48.3740	0.3894	48.76	24.38
12	48.9295	0.4335	49.36	24.68
13	48.7764	0.4806	49.26	24.63
14	48.5486	0.5306	49.08	24.54
15	48.2401	0.5832	48.82	24.41
16	47.8453	0.6385	48.48	24.24
17	47.3590	0.6963	48.06	24.03
18	46.7729	0.7619	47.53	23.77
19	46.0130	0.8536	46.87	23.43
20	45.1543	0.9498	46.10	23.05
21	44.1957	1.0502	45.25	22.62
22	43.1370	1.1547	44.29	22.15
23	41.9793	1.2629	43.24	21.62
24	40.7250	1.3747	42.10	21.05
25	39.5120	1.4896	41.00	20.50
26	38.2810	1.6075	39.89	19.94
27	36.9493	1.7281	38.68	19.34
28	35.5237	1.8169	37.34	18.67
29	34.0122	1.9039	35.92	17.96
30	32.4244	1.9909	34.42	17.21
31	30.7706	2.0779	32.85	16.42
32	28.8681	2.1648	31.03	15.52
33	26.8938	2.2511	29.14	14.57
34	24.9270	2.3369	27.26	13.63
35	22.9802	2.4220	25.40	12.70
36	21.0656	2.5060	23.57	11.79
37	19.1949	2.5951	21.79	10.90
38	17.3793	2.7028	20.08	10.04
39	15.6626	2.8094	18.47	9.24
40	14.0774	2.9147	16.99	8.50
41	12.5529	3.0185	15.57	7.79
42	11.0984	3.1204	14.22	7.11
43	9.7218	3.2204	12.94	6.47
44	8.4299	3.3180	11.75	5.87
45	7.2282	3.4132	10.64	5.32

Distance From Tower (m)	KLRM Facility	KJMT Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	6.1208	3.5057	9.63	4.81
47	5.1066	3.5954	8.70	4.35
48	4.1589	3.6778	7.84	3.92
49	3.3248	3.7566	7.08	3.54
50	2.6003	3.8319	6.43	3.22
51	1.9803	3.9037	5.88	2.94
52	1.4592	3.9718	5.43	2.72
53	1.0306	4.0361	5.07	2.53
54	0.6877	4.0964	4.78	2.39
55	0.4232	4.1527	4.58	2.29
56	0.2297	4.2049	4.43	2.22
57	0.0997	4.2530	4.35	2.18
58	0.0257	4.2967	4.32	2.16
59	0.0002	4.3334	4.33	2.17
60	0.0160	4.3646	4.38	2.19
61	0.0664	4.3914	4.46	2.23
62	0.1447	4.4140	4.56	2.28
63	0.2449	4.4323	4.68	2.34
64	0.3613	4.4464	4.81	2.40
65	0.4888	4.4562	4.94	2.47
66	0.6226	4.4618	5.08	2.54
67	0.7588	4.4632	5.22	2.61
68	0.8887	4.4606	5.35	2.67
69	1.0129	4.4540	5.47	2.73
70	1.1288	4.4433	5.57	2.79
71	1.2346	4.4280	5.66	2.83
72	1.3286	4.4065	5.74	2.87
73	1.4100	4.3816	5.79	2.90
74	1.4780	4.3531	5.83	2.92
75	1.5322	4.3214	5.85	2.93
76	1.5727	4.2864	5.86	2.93
77	1.5997	4.2483	5.85	2.92
78	1.6137	4.2072	5.82	2.91
79	1.6152	4.1632	5.78	2.89
80	1.6100	4.1165	5.73	2.86
81	1.6217	4.0672	5.69	2.84
82	1.6223	4.0155	5.64	2.82
83	1.6124	3.9614	5.57	2.79
84	1.5924	3.9051	5.50	2.75
85	1.5630	3.8447	5.41	2.70
86	1.5250	3.7761	5.30	2.65
87	1.4793	3.7063	5.19	2.59
88	1.4266	3.6353	5.06	2.53
89	1.3679	3.5633	4.93	2.47
90	1.3041	3.4904	4.79	2.40
91	1.2360	3.4166	4.65	2.33
92	1.1646	3.3422	4.51	2.25
93	1.0908	3.2673	4.36	2.18
94	1.0152	3.1919	4.21	2.10
95	0.9389	3.1161	4.06	2.03
96	0.8598	3.0402	3.90	1.95
97	0.7765	2.9641	3.74	1.87
98	0.6962	2.8880	3.58	1.79
99	0.6193	2.8120	3.43	1.72
100	0.5462	2.7361	3.28	1.64