

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 4-bay full-wave spaced antenna. No other FM facilities are at this site.

As can be seen in Exhibit 24-A, the maximum theoretical RF value would be 24.18 $\mu\text{W}/\text{cm}^2$ at a distance of 43 meters from the tower, which is 12.09% of the 200 $\mu\text{W}/\text{cm}^2$ permitted for public (uncontrolled) exposure, and 2.42% 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 24-A
RF Analysis: WNKV.P 216C3 Norco, LA

WNKV.P
Site type: proposed
Channel: 216
Class: C2
ERP: 46 kw
Antenna: ERI
Type 3
4 bay
full wave
COR AGL: 105m
Polarization: Circular

Distance From Tower (m)	WNKV.P Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	8.3633	8.36	4.18
1	8.3626	8.36	4.18
2	8.3603	8.36	4.18
3	8.3564	8.36	4.18
4	8.3510	8.35	4.18
5	8.3439	8.34	4.17
6	8.3350	8.34	4.17
7	8.3243	8.32	4.16
8	8.3116	8.31	4.16
9	8.2969	8.30	4.15
10	8.7097	8.71	4.35
11	9.2302	9.23	4.62
12	9.7603	9.76	4.88
13	10.2990	10.30	5.15
14	10.8450	10.85	5.42
15	11.3972	11.40	5.70
16	11.9541	11.95	5.98
17	12.5143	12.51	6.26
18	13.0761	13.08	6.54
19	13.6897	13.69	6.84
20	14.3604	14.36	7.18
21	15.0325	15.03	7.52
22	15.7039	15.70	7.85
23	16.3718	16.37	8.19
24	17.0336	17.03	8.52
25	17.6867	17.69	8.84
26	18.3281	18.33	9.16
27	18.9550	18.96	9.48
28	19.5644	19.56	9.78
29	20.1076	20.11	10.05
30	20.6199	20.62	10.31
31	21.1053	21.11	10.55
32	21.5611	21.56	10.78
33	21.9847	21.98	10.99
34	22.3732	22.37	11.19
35	22.7243	22.72	11.36
36	23.0355	23.04	11.52
37	23.3045	23.30	11.65
38	23.5292	23.53	11.76
39	23.7520	23.75	11.88
40	23.9377	23.94	11.97
41	24.0723	24.07	12.04
42	24.1542	24.15	12.08
43	24.1823	24.18	12.09
44	24.1559	24.16	12.08
45	24.0743	24.07	12.04

Distance From Tower (m)	WNKV.P Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	23.9373	23.94	11.97
47	23.7452	23.75	11.87
48	23.4984	23.50	11.75
49	23.2009	23.20	11.60
50	22.9281	22.93	11.46
51	22.5989	22.60	11.30
52	22.2149	22.21	11.11
53	21.7780	21.78	10.89
54	21.2905	21.29	10.65
55	20.7551	20.76	10.38
56	20.1746	20.17	10.09
57	19.5524	19.55	9.78
58	18.8920	18.89	9.45
59	18.1970	18.20	9.10
60	17.4715	17.47	8.74
61	16.7403	16.74	8.37
62	16.0164	16.02	8.01
63	15.2680	15.27	7.63
64	14.4997	14.50	7.25
65	13.7161	13.72	6.86
66	12.9218	12.92	6.46
67	12.1217	12.12	6.06
68	11.3201	11.32	5.66
69	10.5218	10.52	5.26
70	9.7310	9.73	4.87
71	8.9520	8.95	4.48
72	8.1888	8.19	4.09
73	7.4454	7.45	3.72
74	6.7097	6.71	3.35
75	5.9892	5.99	2.99
76	5.3054	5.31	2.65
77	4.6601	4.66	2.33
78	4.0549	4.05	2.03
79	3.4913	3.49	1.75
80	2.9702	2.97	1.49
81	2.4922	2.49	1.25
82	2.0579	2.06	1.03
83	1.6673	1.67	0.83
84	1.3202	1.32	0.66
85	1.0162	1.02	0.51
86	0.7545	0.75	0.38
87	0.5342	0.53	0.27
88	0.3541	0.35	0.18
89	0.2128	0.21	0.11
90	0.1088	0.11	0.05
91	0.0404	0.04	0.02
92	0.0056	0.01	0.00
93	0.0024	0.00	0.00
94	0.0287	0.03	0.01
95	0.0823	0.08	0.04
96	0.1609	0.16	0.08
97	0.2621	0.26	0.13
98	0.3838	0.38	0.19
99	0.5234	0.52	0.26
100	0.6788	0.68	0.34