

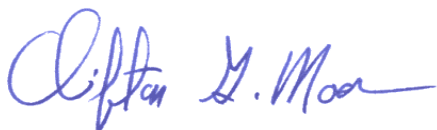
WFFL Radiofrequency Radiation Calculation  
Channel 219A – 1.5 KW  
Panama City, FL

This radiofrequency Radiation Study is being conducted to determine whether this proposal is in compliance with OET Bulletin 65 dated August 1997 regarding human exposure to radiofrequency radiation in the vicinity of broadcast towers.

The proposed translator will operate on 91.7 MHz with a power of 1.5 KW from 77.7 M AGL. The proposed antenna is a SWR FMEC/2-Plus which allows for Best Case RFR calculation. This proposal delivers 1.225683 micro Watts per centimeter squared or 0.61% of the ANSI limit at the tower base. The maximum contribution occurs at a distance of between 35 – 53 meters from the tower base. Here the maximum contribution is 1.6% of the ANSI limit.

The only nearby station is co-located Translator W273DU. W273DU occupies an IF channel of WFFL. Because of this, secondary station W273DU is displaced.

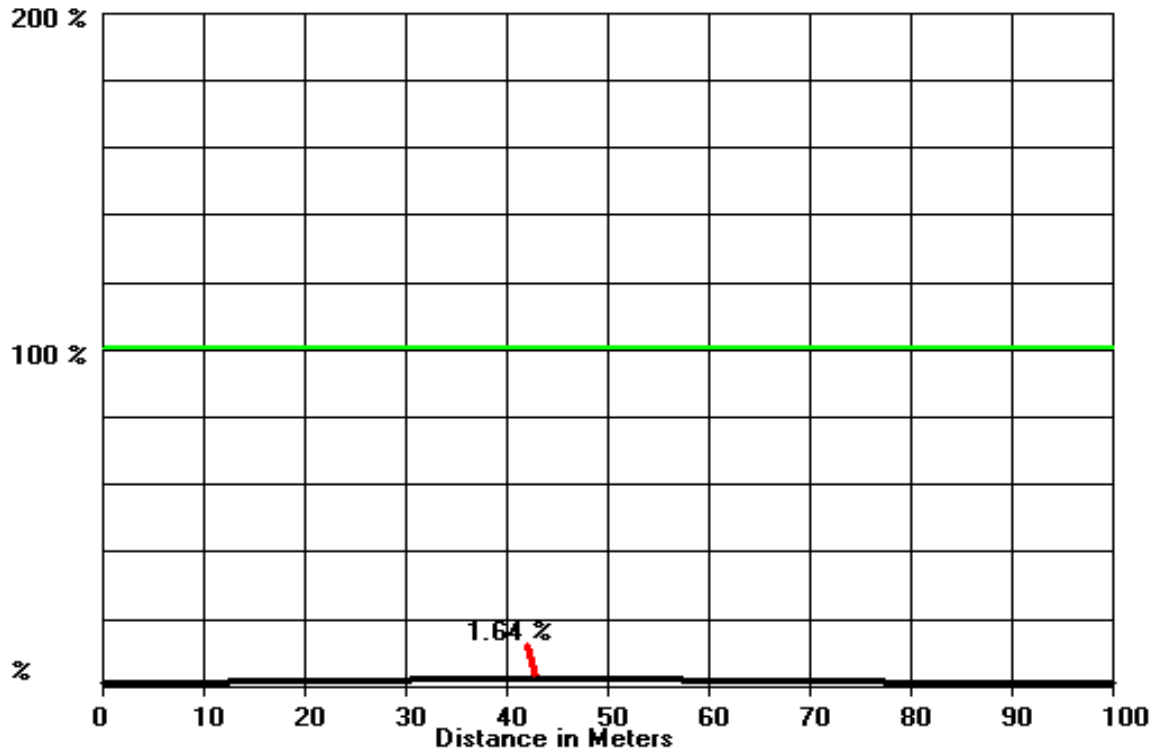
All information contained here is thought to be accurate to the knowledge of the undersigned.



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Bromo Communications, Inc.

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EPA Type 2: Opposed "V" dipole, 2 Bays, Spac= 1, H=1.5 kW, V=1.5 kW, 77.7 M AG



HORZ. DISTANCE FROM FM RADIATOR VS POWER DENSITY (Microwatt/Square cm)  
 Dist(Meters) PD (H) PD (V) Total(uW/cm2) Percent Max.(200)

0	0.26	0.96	1.23	0.6
1	0.25	0.99	1.24	0.6
2	0.23	1.01	1.25	0.6
3	0.22	1.04	1.26	0.6
4	0.21	1.06	1.27	0.6
5	0.19	1.09	1.28	0.6
6	0.18	1.11	1.30	0.6
7	0.18	1.15	1.32	0.7
8	0.19	1.19	1.38	0.7
9	0.20	1.24	1.44	0.7
10	0.21	1.29	1.50	0.7
11	0.23	1.33	1.56	0.8
12	0.24	1.38	1.62	0.8
13	0.25	1.42	1.67	0.8
14	0.27	1.47	1.74	0.9
15	0.30	1.50	1.81	0.9
16	0.34	1.54	1.88	0.9
17	0.37	1.58	1.95	1.0
18	0.40	1.62	2.02	1.0
19	0.44	1.65	2.09	1.0
20	0.47	1.69	2.16	1.1
21	0.52	1.72	2.23	1.1
22	0.56	1.74	2.30	1.2
23	0.61	1.77	2.38	1.2
24	0.65	1.79	2.45	1.2
25	0.70	1.81	2.52	1.3

Dist(Meters)	PD (H)	PD (V)	Total(uW/cm2)	Percent Max.
26	0.75	1.84	2.58	1.3
27	0.79	1.85	2.65	1.3
28	0.85	1.87	2.71	1.4
29	0.92	1.87	2.78	1.4
30	0.98	1.87	2.85	1.4
31	1.05	1.87	2.91	1.5
32	1.11	1.86	2.98	1.5
33	1.17	1.86	3.04	1.5
34	1.24	1.85	3.09	1.5
35	1.30	1.85	3.14	1.6
36	1.34	1.84	3.18	1.6
37	1.37	1.84	3.21	1.6
38	1.40	1.83	3.23	1.6
39	1.43	1.82	3.25	1.6
40	1.46	1.81	3.26	1.6
41	1.48	1.79	3.27	1.6
42	1.50	1.78	3.28	1.6
43	1.52	1.76	3.28	1.6
44	1.54	1.74	3.28	1.6
45	1.57	1.71	3.28	1.6
46	1.59	1.69	3.28	1.6
47	1.61	1.66	3.27	1.6
48	1.63	1.63	3.25	1.6
49	1.64	1.59	3.24	1.6
50	1.65	1.56	3.21	1.6
51	1.66	1.53	3.19	1.6
52	1.67	1.49	3.16	1.6
53	1.67	1.46	3.13	1.6
54	1.65	1.42	3.08	1.5
55	1.63	1.39	3.02	1.5
56	1.61	1.35	2.97	1.5
57	1.59	1.31	2.91	1.5
58	1.57	1.28	2.85	1.4
59	1.54	1.24	2.78	1.4
60	1.52	1.20	2.72	1.4
61	1.49	1.17	2.66	1.3
62	1.46	1.13	2.59	1.3
63	1.43	1.09	2.52	1.3
64	1.40	1.06	2.46	1.2
65	1.39	1.02	2.41	1.2
66	1.36	0.99	2.35	1.2
67	1.34	0.95	2.30	1.1
68	1.32	0.92	2.24	1.1
69	1.29	0.89	2.18	1.1
70	1.27	0.85	2.12	1.1
71	1.24	0.82	2.06	1.0
72	1.21	0.79	2.00	1.0
73	1.18	0.76	1.93	1.0
74	1.15	0.73	1.87	0.9
75	1.11	0.69	1.81	0.9
76	1.08	0.66	1.74	0.9
77	1.05	0.63	1.68	0.8

Dist(Meters)	PD (H)	PD (V)	Total(uW/cm2)	Percent Max.
78	1.01	0.60	1.61	0.8
79	0.97	0.57	1.55	0.8
80	0.94	0.54	1.48	0.7
81	0.90	0.51	1.42	0.7
82	0.87	0.49	1.36	0.7
83	0.83	0.46	1.29	0.6
84	0.80	0.44	1.23	0.6
85	0.76	0.41	1.17	0.6
86	0.73	0.39	1.12	0.6
87	0.70	0.37	1.06	0.5
88	0.66	0.34	1.01	0.5
89	0.63	0.32	0.95	0.5
90	0.60	0.30	0.90	0.5
91	0.56	0.28	0.85	0.4
92	0.53	0.27	0.80	0.4
93	0.50	0.25	0.75	0.4
94	0.47	0.24	0.70	0.4
95	0.44	0.22	0.66	0.3
96	0.41	0.21	0.62	0.3
97	0.38	0.19	0.57	0.3
98	0.36	0.18	0.53	0.3
99	0.33	0.16	0.50	0.2
100	0.31	0.15	0.46	0.2