

Maranatha Broadcasting

P.O. Box 7575
Huntington, WV 25777

Exhibit 22
Clarksburg, WV

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 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 6-bay circularly polarized .5-wave spaced antenna on the same site as the following:

Call	Channel	Status	City	FIN	Licensee / Permittee
WDKL	240A	LIC	Grafton, WV	64662	EDUCATIONAL MEDIA FOUNDATION

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

As can be seen in Exhibit 22A, the maximum overall theoretical RF value would be 130.26 uW/cm^2 at a distance of 8 meters from the tower, which is 65.13% of the 200 uW/cm^2 permitted for public (uncontrolled) exposure, and 13.03% of the 1000 uW/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: Clarksburg, WV
 WZWA
 211
 C2
 WZWA WDKL
 Site type: Application LIC
 Channel: 211 240
 Class: C2 A
 ERP: 50 kw 6 kw
 Antenna: ERI SWR
 rototiller
 6 bay 6 bay
 half wave full wave
 COR AGL: 42 m 42 m
 Polarization: circular circular

Distance From Tower (m)	WZWA Facility	WDKL Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	0.0000	113.6398	113.64	56.82
1	0.0000	115.4145	115.41	57.71
2	0.0002	117.0541	117.05	58.53
3	0.0009	118.5118	118.51	59.26
4	0.0030	120.6399	120.64	60.32
5	0.0083	124.3427	124.35	62.18
6	0.0193	127.5608	127.58	63.79
7	0.0399	130.1127	130.15	65.08
8	0.0756	130.1842	130.26	65.13
9	0.1339	128.1739	128.31	64.15
10	0.2229	125.0604	125.28	62.64
11	0.3520	120.7345	121.09	60.54
12	0.5290	114.9209	115.45	57.72
13	0.7635	107.7896	108.55	54.28
14	1.0649	99.4889	100.55	50.28
15	1.4401	90.1646	91.60	45.80
16	1.9013	80.4126	82.31	41.16
17	2.4488	70.1601	72.61	36.30
18	3.0772	59.5678	62.65	31.32
19	3.7790	49.0043	52.78	26.39
20	4.5579	38.6912	43.25	21.62
21	5.4104	29.0584	34.47	17.23
22	6.2932	20.6549	26.95	13.47
23	7.1790	13.6665	20.85	10.42
24	8.0375	8.1861	16.22	8.11
25	8.8900	4.2268	13.12	6.56
26	9.6740	1.6601	11.33	5.67
27	10.3397	0.3248	10.66	5.33
28	10.8576	0.0078	10.87	5.43
29	11.2033	0.4579	11.66	5.83
30	11.2794	1.4025	12.68	6.34
31	11.1097	2.5729	13.68	6.84
32	10.7547	3.7470	14.50	7.25
33	10.2259	4.7528	14.98	7.49
34	9.5416	5.4752	15.02	7.51
35	8.7261	5.8553	14.58	7.29
36	7.8026	5.8923	13.69	6.85
37	6.8094	5.6119	12.42	6.21
38	5.7831	5.0710	10.85	5.43
39	4.7582	4.3470	9.11	4.55
40	3.7685	3.5237	7.29	3.65
41	2.8454	2.6814	5.53	2.76
42	2.0174	1.8903	3.91	1.95
43	1.3066	1.2002	2.51	1.25
44	0.7378	0.6572	1.39	0.70
45	0.3252	0.2781	0.60	0.30

Distance From Tower (m)	WZWA Facility	WDKL Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	0.0779	0.0634	0.14	0.07
47	0.0002	0.0001	0.00	0.00
48	0.0915	0.0655	0.16	0.08
49	0.3472	0.2306	0.58	0.29
50	0.7589	0.4636	1.22	0.61
51	1.3183	0.7468	2.07	1.03
52	2.0112	1.0487	3.06	1.53
53	2.8219	1.3426	4.16	2.08
54	3.7331	1.6065	5.34	2.67
55	4.7265	1.8230	6.55	3.27
56	5.7828	1.9802	7.76	3.88
57	6.8831	2.0716	8.95	4.48
58	8.0086	2.0957	10.10	5.05
59	9.1412	2.0556	11.20	5.60
60	10.2630	1.9573	12.22	6.11
61	11.3075	1.7886	13.10	6.55
62	12.3046	1.5880	13.89	6.95
63	13.2426	1.3680	14.61	7.31
64	14.1118	1.1405	15.25	7.63
65	14.9041	0.9166	15.82	7.91
66	15.6131	0.7055	16.32	8.16
67	16.2341	0.5149	16.75	8.37
68	16.7640	0.3505	17.11	8.56
69	17.2010	0.2163	17.42	8.71
70	17.5446	0.1143	17.66	8.83
71	17.7956	0.0451	17.84	8.92
72	17.9559	0.0080	17.96	8.98
73	18.0449	0.0009	18.05	9.02
74	18.0977	0.0210	18.12	9.06
75	18.0677	0.0649	18.13	9.07
76	17.9587	0.1286	18.09	9.04
77	17.7753	0.2083	17.98	8.99
78	17.5223	0.2995	17.82	8.91
79	17.2051	0.3984	17.60	8.80
80	16.8290	0.5009	17.33	8.66
81	16.3996	0.6036	17.00	8.50
82	15.9227	0.7032	16.63	8.31
83	15.4040	0.7972	16.20	8.10
84	14.8490	0.8830	15.73	7.87
85	14.2632	0.9590	15.22	7.61
86	13.6521	1.0238	14.68	7.34
87	13.0209	1.0765	14.10	7.05
88	12.3744	1.1164	13.49	6.75
89	11.7176	1.1434	12.86	6.43
90	11.0547	1.1577	12.21	6.11
91	10.3541	1.1561	11.51	5.76
92	9.6586	1.1428	10.80	5.40
93	8.9746	1.1188	10.09	5.05
94	8.3051	1.0854	9.39	4.70
95	7.6527	1.0437	8.70	4.35
96	7.0198	0.9949	8.01	4.01
97	6.4087	0.9402	7.35	3.67
98	5.8210	0.8809	6.70	3.35
99	5.2585	0.8182	6.08	3.04
100	4.7224	0.7532	5.48	2.74