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 1-bay circularly polarized full-wave spaced antenna.

According to OET 65, "Applicants and licensees should be able to calculate, based on considerations of frequency, power and antenna characteristics the distance from their transmitter where their signal produces an RF field equal to, or greater than, the 5% threshold limit. The applicant or licensee then shares responsibility for compliance in any accessible area or areas within this 5% "contour" where the appropriate limits are found to be exceeded."

As can be seen in Exhibit 35A, the proposed facility's maximum contribution to RF on the site is 0.0691 uW/cm^2 at a distance of 70-71 meters from the tower, which is .0345% of the uncontrolled (public) exposure limit.

Therefore, because the proposed facility will not cause an RF field that is equal to or greater than 5% of the 200 uW/cm^2 limit for uncontrolled exposure at any point, the proposed facility complies with the requirements of OET 65.

EMF will fully cooperate with other 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 35A
RF Analysis: WVLO Cridersville, OH

WVLO
Site type: Proposed
Channel: 257
Class: A
ERP: .115kw
Antenna: Ring Stub
EPA Type 1
1 bay

COR AGL: 259M
Polorization: Circular Pol

Distance From Tower (m)	WVLO Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	0.05738	0.0574	0.0287
1	0.05753	0.0575	0.0288
2	0.05767	0.0577	0.0288
3	0.05782	0.0578	0.0289
4	0.05797	0.0580	0.0290
5	0.05811	0.0581	0.0291
6	0.05825	0.0583	0.0291
7	0.05839	0.0584	0.0292
8	0.05853	0.0585	0.0293
9	0.05867	0.0587	0.0293
10	0.05880	0.0588	0.0294
11	0.05893	0.0589	0.0295
12	0.05907	0.0591	0.0295
13	0.05920	0.0592	0.0296
14	0.05932	0.0593	0.0297
15	0.05945	0.0595	0.0297
16	0.05958	0.0596	0.0298
17	0.05970	0.0597	0.0298
18	0.05982	0.0598	0.0299
19	0.05994	0.0599	0.0300
20	0.06006	0.0601	0.0300
21	0.06017	0.0602	0.0301
22	0.06029	0.0603	0.0301
23	0.06048	0.0605	0.0302
24	0.06082	0.0608	0.0304
25	0.06117	0.0612	0.0306
26	0.06151	0.0615	0.0308
27	0.06185	0.0618	0.0309
28	0.06219	0.0622	0.0311
29	0.06252	0.0625	0.0313
30	0.06286	0.0629	0.0314
31	0.06319	0.0632	0.0316
32	0.06352	0.0635	0.0318
33	0.06385	0.0639	0.0319
34	0.06418	0.0642	0.0321
35	0.06451	0.0645	0.0323
36	0.06484	0.0648	0.0324
37	0.06516	0.0652	0.0326
38	0.06548	0.0655	0.0327
39	0.06580	0.0658	0.0329
40	0.06612	0.0661	0.0331
41	0.06643	0.0664	0.0332
42	0.06675	0.0667	0.0334
43	0.06706	0.0671	0.0335
44	0.06737	0.0674	0.0337
45	0.06768	0.0677	0.0338

Distance From Tower (m)	WVLO Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	0.0679	0.0679	0.0340
47	0.0680	0.0680	0.0340
48	0.0681	0.0681	0.0340
49	0.0681	0.0681	0.0341
50	0.0682	0.0682	0.0341
51	0.0683	0.0683	0.0341
52	0.0683	0.0683	0.0342
53	0.0684	0.0684	0.0342
54	0.0684	0.0684	0.0342
55	0.0685	0.0685	0.0342
56	0.0685	0.0685	0.0343
57	0.0686	0.0686	0.0343
58	0.0686	0.0686	0.0343
59	0.0687	0.0687	0.0343
60	0.0687	0.0687	0.0344
61	0.0688	0.0688	0.0344
62	0.0688	0.0688	0.0344
63	0.0689	0.0689	0.0344
64	0.0689	0.0689	0.0344
65	0.0689	0.0689	0.0345
66	0.0690	0.0690	0.0345
67	0.0690	0.0690	0.0345
68	0.0690	0.0690	0.0345
69	0.0690	0.0690	0.0345
70	**0.0691**	**0.0691**	**0.0345**
71	**0.0691**	**0.0691**	**0.0345**
72	0.0690	0.0690	0.0345
73	0.0690	0.0690	0.0345
74	0.0690	0.0690	0.0345
75	0.0690	0.0690	0.0345
76	0.0690	0.0690	0.0345
77	0.0690	0.0690	0.0345
78	0.0690	0.0690	0.0345
79	0.0689	0.0689	0.0345
80	0.0689	0.0689	0.0345
81	0.0689	0.0689	0.0344
82	0.0689	0.0689	0.0344
83	0.0688	0.0688	0.0344
84	0.0688	0.0688	0.0344
85	0.0688	0.0688	0.0344
86	0.0687	0.0687	0.0344
87	0.0687	0.0687	0.0344
88	0.0687	0.0687	0.0343
89	0.0686	0.0686	0.0343
90	0.0686	0.0686	0.0343
91	0.0685	0.0685	0.0343
92	0.0685	0.0685	0.0342
93	0.0685	0.0685	0.0342
94	0.0684	0.0684	0.0342
95	0.0684	0.0684	0.0342
96	0.0684	0.0684	0.0342
97	0.0685	0.0685	0.0342
98	0.0685	0.0685	0.0342
99	0.0685	0.0685	0.0342
100	0.0685	0.0685	0.0342