

**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 1061019), therefore it should have no adverse effect on the surrounding environment.

**2) Human exposure to excess levels of radiofrequency radiation.**

The proposed facility is to be built using a 5-bay circularly polarized full-wave spaced antenna.

As can be seen in Exhibit 35-A, the maximum theoretical RF value would be 10.3820  $\mu\text{W}/\text{cm}^2$  at a distance of 30 meters from the tower, which is 5.19% of the 200  $\mu\text{W}/\text{cm}^2$  permitted for public (uncontrolled) exposure, 1.04% 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 35-A****RF Analysis: WJAI Pearl, MS****WJAI.P****Site type:** Proposed**Channel:** 230**Class:** C3**ERP:** 14.5 kw**Antenna:** ERI LPX

EPA Type 3

5 bay

full wave

**COR AGL:** 84m**Polarization:** circular

<b>Distance From Tower (m)</b>	<b>WJAI.P Facility</b>	<b>Total RF (uW/cm2)</b>	<b>Percent of 200uW/cm2</b>
0	4.1192	4.12	2.06
1	4.1186	4.12	2.06
2	4.1168	4.12	2.06
3	4.1138	4.11	2.06
4	4.1094	4.11	2.05
5	4.1036	4.10	2.05
6	4.0962	4.10	2.05
7	4.0869	4.09	2.04
8	4.2872	4.29	2.14
9	4.6065	4.61	2.30
10	4.9322	4.93	2.47
11	5.2627	5.26	2.63
12	5.5966	5.60	2.80
13	5.9322	5.93	2.97
14	6.2674	6.27	3.13
15	6.6124	6.61	3.31
16	7.0076	7.01	3.50
17	7.3992	7.40	3.70
18	7.7842	7.78	3.89
19	8.1591	8.16	4.08
20	8.5206	8.52	4.26
21	8.8650	8.86	4.43
22	9.1885	9.19	4.59
23	9.4720	9.47	4.74
24	9.7115	9.71	4.86
25	9.9194	9.92	4.96
26	10.0925	10.09	5.05
27	10.2278	10.23	5.11
28	10.3226	10.32	5.16
29	10.3747	10.37	5.19
<b>30</b>	<b>10.3820</b>	<b>10.38</b>	<b>5.19</b>
31	10.3563	10.36	5.18
32	10.2999	10.30	5.15
33	10.1939	10.19	5.10
34	10.0381	10.04	5.02
35	9.8333	9.83	4.92
36	9.5809	9.58	4.79

37	9.2828	9.28	4.64
38	8.9417	8.94	4.47
39	8.5610	8.56	4.28
40	8.1745	8.17	4.09
41	7.7579	7.76	3.88
42	7.3098	7.31	3.65
43	6.8353	6.84	3.42
44	6.3404	6.34	3.17
45	5.8309	5.83	2.92

Distance From Tower (m)	WJALP Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	5.3131	5.31	2.66
47	4.7933	4.79	2.40
48	4.2776	4.28	2.14
49	3.7799	3.78	1.89
50	3.3025	3.30	1.65
51	2.8423	2.84	1.42
52	2.4047	2.40	1.20
53	1.9948	1.99	1.00
54	1.6168	1.62	0.81
55	1.2742	1.27	0.64
56	0.9702	0.97	0.49
57	0.7066	0.71	0.35
58	0.4850	0.48	0.24
59	0.3055	0.31	0.15
60	0.1678	0.17	0.08
61	0.0726	0.07	0.04
62	0.0176	0.02	0.01
63	0.0000	0.00	0.00
64	0.0165	0.02	0.01
65	0.0635	0.06	0.03
66	0.1371	0.14	0.07
67	0.2333	0.23	0.12
68	0.3479	0.35	0.17
69	0.4768	0.48	0.24
70	0.6158	0.62	0.31
71	0.7608	0.76	0.38
72	0.9080	0.91	0.45
73	1.0538	1.05	0.53
74	1.1951	1.20	0.60
75	1.3290	1.33	0.66
76	1.4529	1.45	0.73
77	1.5646	1.56	0.78
78	1.6625	1.66	0.83
79	1.7450	1.75	0.87
80	1.8113	1.81	0.91
81	1.8607	1.86	0.93
82	1.8929	1.89	0.95
83	1.9079	1.91	0.95
84	1.9063	1.91	0.95
85	1.8866	1.89	0.94
86	1.8518	1.85	0.93
87	1.8030	1.80	0.90
88	1.7416	1.74	0.87
89	1.6689	1.67	0.83
90	1.5866	1.59	0.79
91	1.4961	1.50	0.75
92	1.3992	1.40	0.70
93	1.2973	1.30	0.65
94	1.1922	1.19	0.60
95	1.0853	1.09	0.54
96	0.9782	0.98	0.49
97	0.8722	0.87	0.44

98	0.7686	0.77	0.38
99	0.6687	0.67	0.33
100	0.5733	0.57	0.29