

**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.**

The site for the proposed new tower is currently being investigated, 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 two-bay, full-wave spaced antenna. The site is not shared with any other broadcast facilities.

As can be seen in the attached analysis, the maximum theoretical RF value would be  $3.63 \mu\text{W}/\text{cm}^2$  at a distance of 31 meters from the tower, which is only 1.81% of the  $200 \mu\text{W}/\text{cm}^2$  permitted for public (uncontrolled) exposure.

This application is in compliance with OET 65.

Further, Mr. McDaniel will cooperate with other (future) site users to reduce power or cease broadcasting as necessary to protect workers and others having access to the site from excessive levels of RF Radiation.

**Exhibit 30-A**  
**RF Analysis: NEW.P 225C3 Butte Falls, OR**

**NEW.P**

**Site type:** Application

**Channel:** 225

**Class:** C3

**ERP:** 0.8 kw

**Antenna:** ERI

roto

2-bay

full wave

**COR AGL:** 46 m

**Polarization:** Circular

Distance From Tower (m)	NEW.P Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	0.7579	0.76	0.38
1	0.7575	0.76	0.38
2	0.7564	0.76	0.38
3	0.7546	0.75	0.38
4	0.7521	0.75	0.38
5	0.8573	0.86	0.43
6	0.9703	0.97	0.49
7	1.0877	1.09	0.54
8	1.2086	1.21	0.60
9	1.3528	1.35	0.68
10	1.5037	1.50	0.75
11	1.6577	1.66	0.83
12	1.8133	1.81	0.91
13	1.9614	1.96	0.98
14	2.1039	2.10	1.05
15	2.2433	2.24	1.12
16	2.3781	2.38	1.19
17	2.5104	2.51	1.26
18	2.6458	2.65	1.32
19	2.7728	2.77	1.39
20	2.8901	2.89	1.45
21	2.9965	3.00	1.50
22	3.1048	3.10	1.55
23	3.2112	3.21	1.61
24	3.3037	3.30	1.65
25	3.3815	3.38	1.69
26	3.4442	3.44	1.72
27	3.5029	3.50	1.75
28	3.5595	3.56	1.78
29	3.5991	3.60	1.80
30	3.6217	3.62	1.81
<b>31</b>	<b>3.6276</b>	<b>3.63</b>	<b>1.81</b>
32	3.6172	3.62	1.81
33	3.5608	3.56	1.78
34	3.4846	3.48	1.74
35	3.3981	3.40	1.70
36	3.3024	3.30	1.65
37	3.1987	3.20	1.60
38	3.0878	3.09	1.54
39	2.9700	2.97	1.48
40	2.8460	2.85	1.42
41	2.7185	2.72	1.36
42	2.5886	2.59	1.29
43	2.4571	2.46	1.23
44	2.3250	2.33	1.16
45	2.1931	2.19	1.10

Distance From Tower (m)	NEW.P Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	2.0622	2.06	1.03
47	1.9292	1.93	0.96
48	1.7992	1.80	0.90
49	1.6725	1.67	0.84
50	1.5496	1.55	0.77
51	1.4310	1.43	0.72
52	1.3168	1.32	0.66
53	1.2073	1.21	0.60
54	1.1028	1.10	0.55
55	1.0039	1.00	0.50
56	0.9118	0.91	0.46
57	0.8245	0.82	0.41
58	0.7420	0.74	0.37
59	0.6644	0.66	0.33
60	0.5917	0.59	0.30
61	0.5239	0.52	0.26
62	0.4609	0.46	0.23
63	0.4026	0.40	0.20
64	0.3489	0.35	0.17
65	0.2998	0.30	0.15
66	0.2547	0.25	0.13
67	0.2134	0.21	0.11
68	0.1765	0.18	0.09
69	0.1438	0.14	0.07
70	0.1151	0.12	0.06
71	0.0901	0.09	0.05
72	0.0687	0.07	0.03
73	0.0506	0.05	0.03
74	0.0356	0.04	0.02
75	0.0235	0.02	0.01
76	0.0141	0.01	0.01
77	0.0073	0.01	0.00
78	0.0028	0.00	0.00
79	0.0004	0.00	0.00
80	0.0001	0.00	0.00
81	0.0016	0.00	0.00
82	0.0048	0.00	0.00
83	0.0096	0.01	0.00
84	0.0159	0.02	0.01
85	0.0235	0.02	0.01
86	0.0323	0.03	0.02
87	0.0422	0.04	0.02
88	0.0532	0.05	0.03
89	0.0650	0.06	0.03
90	0.0776	0.08	0.04
91	0.0910	0.09	0.05
92	0.1050	0.11	0.05
93	0.1196	0.12	0.06
94	0.1347	0.13	0.07
95	0.1502	0.15	0.08
96	0.1660	0.17	0.08
97	0.1821	0.18	0.09
98	0.1985	0.20	0.10
99	0.2147	0.21	0.11
100	0.2306	0.23	0.12