

**Human exposure to excess levels of radiofrequency radiation**

The proposed facility is to be built using a 1-bay JLCP-1 circularly polarized 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 17-A, the proposed facility’s maximum contribution to RF on the site is  $0.011 \mu\text{W}/\text{cm}^2$  at a distance of 99 meters from the tower, which is 0.005% 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  $200 \mu\text{W}/\text{cm}^2$  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 17-A**  
**RF Analysis: W279BT Cleveland, OH**

**W279BT**

**Site type:** Proposed

**Channel:** 279

**Class:** D

**ERP:** 0.029 kW

**Antenna:** Jampro JLCP-1

EPA Type 1

1 bay

**COR AGL:** 135 m

**Polarization:** Circular

<b>Distance From Tower (m)</b>	<b>W279BT Facility</b>	<b>Percent of 200uW/cm2</b>
0	0.001	0.000
1	0.001	0.000
2	0.001	0.000
3	0.001	0.000
4	0.001	0.000
5	0.001	0.000
6	0.001	0.000
7	0.001	0.000
8	0.001	0.000
9	0.001	0.000
10	0.001	0.000
11	0.001	0.001
12	0.001	0.001
13	0.001	0.001
14	0.001	0.001
15	0.001	0.001
16	0.001	0.001
17	0.001	0.001
18	0.001	0.001
19	0.001	0.001
20	0.002	0.001
21	0.002	0.001
22	0.002	0.001
23	0.002	0.001
24	0.002	0.001
25	0.002	0.001
26	0.002	0.001
27	0.002	0.001
28	0.002	0.001
29	0.002	0.001
30	0.003	0.001
31	0.003	0.001
32	0.003	0.001
33	0.003	0.001
34	0.003	0.001
35	0.003	0.002
36	0.003	0.002
37	0.003	0.002
38	0.003	0.002
39	0.003	0.002
40	0.004	0.002
41	0.004	0.002
42	0.004	0.002
43	0.004	0.002
44	0.004	0.002
45	0.004	0.002

Distance From Tower (m)	W279BT Facility	Percent of 200uW/cm2
46	0.004	0.002
47	0.004	0.002
48	0.005	0.002
49	0.005	0.002
50	0.005	0.003
51	0.005	0.003
52	0.005	0.003
53	0.005	0.003
54	0.005	0.003
55	0.005	0.003
56	0.006	0.003
57	0.006	0.003
58	0.006	0.003
59	0.006	0.003
60	0.006	0.003
61	0.007	0.003
62	0.006	0.003
63	0.006	0.003
64	0.007	0.004
65	0.007	0.004
66	0.007	0.004
67	0.007	0.004
68	0.007	0.004
69	0.007	0.004
70	0.008	0.004
71	0.008	0.004
72	0.007	0.004
73	0.008	0.004
74	0.008	0.004
75	0.008	0.004
76	0.008	0.004
77	0.008	0.004
78	0.008	0.004
79	0.009	0.004
80	0.009	0.004
81	0.008	0.004
82	0.009	0.005
83	0.009	0.005
84	0.009	0.005
85	0.009	0.005
86	0.009	0.005
87	0.009	0.005
88	0.009	0.005
89	0.010	0.005
90	0.010	0.005
91	0.010	0.005
92	0.010	0.005
93	0.010	0.005
94	0.010	0.005
95	0.011	0.005
96	0.010	0.005
97	0.010	0.005
98	0.010	0.005
99	0.011	0.005
100	0.011	0.005