

**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.**

The proposed facility will be constructed on an existing tower 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 1-bay circularly polarized antenna near the following facility:

Status	Call	Licensee/Permittee	Channel	City	FIN
LIC	K280DT	AMFM Broadcasting Licenses	280D	Thousand Oaks, etc, CA	14241

See Exhibit 35-A for antennas that were specified by each licensee/permittee.

To simplify the calculation of the theoretical RFR at the site, a “worst case” scenario of the facilities being colocated was used for this study

As can be seen in Exhibit 24-A, the maximum theoretical RF value would be 26.68  $\mu\text{W}/\text{cm}^2$  at a distance of 29 meters from the tower, which is 13.34% of the 200  $\mu\text{W}/\text{cm}^2$  permitted for public (uncontrolled) exposure, and 2.67% 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.

The licensee 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 24-A

RF Analysis: KYRA Thousand Oaks, CA

	KYRA.P	K280DT
Site type:	Proposed	LIC FMT
Channel:	224	280
Class:	A	D
ERP:	1.4kw	0.005kw
Antenna:	DIE	*
	EPA type 9	EPA Type 1
	1 bay	1 bay
		*worst case type 1 used
COR AGL:	27m	17m
Polarization:	circular	horizontal

Distance From Tower (m)	KYRA.P Facility	K280DT Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	4.1233	0.1098	4.23	2.12
1	4.2165	0.1172	4.33	2.17
2	4.4146	0.1255	4.54	2.27
3	4.9220	0.1346	5.06	2.53
4	5.6346	0.1420	5.78	2.89
5	6.4721	0.1480	6.62	3.31
6	7.5514	0.1524	7.70	3.85
7	8.6960	0.1552	8.85	4.43
8	9.9694	0.1569	10.13	5.06
9	11.2901	0.1593	11.45	5.72
10	12.6349	<b>0.1597</b>	12.79	6.40
11	14.0779	0.1555	14.23	7.12
12	15.4873	0.1510	15.64	7.82
13	16.8475	0.1475	16.99	8.50
14	18.1433	0.1436	18.29	9.14
15	19.3602	0.1410	19.50	9.75
16	20.4817	0.1387	20.62	10.31
17	21.4985	0.1358	21.63	10.82
18	22.4185	0.1350	22.55	11.28
19	23.2351	0.1337	23.37	11.68
20	23.9039	0.1319	24.04	12.02
21	24.4795	0.1290	24.61	12.30
22	24.9652	0.1257	25.09	12.55
23	<b>25.3896</b>	<b>0.1223</b>	<b>25.51</b>	<b>12.76</b>
24	25.7766	0.1189	25.90	12.95
25	26.0836	0.1142	26.20	13.10
26	26.3158	0.1092	26.43	13.21
27	26.4788	0.1045	26.58	13.29
28	26.5587	0.1000	26.66	13.33
<b>29</b>	<b>26.5816</b>	0.0957	<b>26.68</b>	<b>13.34</b>
30	26.5528	0.0927	26.65	13.32
31	26.4775	0.0905	26.57	13.28
32	26.3603	0.0882	26.45	13.22
33	26.1606	0.0860	26.25	13.12
34	25.9221	0.0838	26.01	13.00
35	25.6588	0.0816	25.74	12.87
36	25.3741	0.0794	25.45	12.73
37	25.0710	0.0768	25.15	12.57
38	24.7525	0.0738	24.83	12.41
39	24.4009	0.0709	24.47	12.24
40	24.0159	0.0683	24.08	12.04
41	23.6261	0.0657	23.69	11.85
42	23.2330	0.0633	23.30	11.65
43	22.8381	0.0610	22.90	11.45
44	22.4426	0.0588	22.50	11.25
45	22.0478	0.0567	22.10	11.05

Distance From Tower (m)	KYRA.P Facility	K280DT Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	21.6545	0.0548	21.71	10.85
47	21.2605	0.0529	21.31	10.66
48	20.8597	0.0513	20.91	10.46
49	20.4637	0.0497	20.51	10.26
50	20.0732	0.0482	20.12	10.06
51	19.6884	0.0467	19.74	9.87
52	19.3096	0.0453	19.35	9.68
53	18.9372	0.0440	18.98	9.49
54	18.5714	0.0427	18.61	9.31
55	18.2122	0.0415	18.25	9.13
56	17.8599	0.0403	17.90	8.95
57	17.5145	0.0392	17.55	8.78
58	17.1742	0.0381	17.21	8.61
59	16.8241	0.0371	16.86	8.43
60	16.4824	0.0361	16.52	8.26
61	16.1489	0.0351	16.18	8.09
62	15.8236	0.0342	15.86	7.93
63	15.5062	0.0333	15.54	7.77
64	15.1966	0.0325	15.23	7.61
65	14.8946	0.0317	14.93	7.46
66	14.6002	0.0310	14.63	7.32
67	14.3131	0.0302	14.34	7.17
68	14.0332	0.0295	14.06	7.03
69	13.7603	0.0289	13.79	6.89
70	13.4942	0.0282	13.52	6.76
71	13.2348	0.0276	13.26	6.63
72	12.9819	0.0270	13.01	6.50
73	12.7353	0.0264	12.76	6.38
74	12.4949	0.0258	12.52	6.26
75	12.2540	0.0253	12.28	6.14
76	12.0180	0.0247	12.04	6.02
77	11.7882	0.0242	11.81	5.91
78	11.5644	0.0237	11.59	5.79
79	11.3463	0.0232	11.37	5.68
80	11.1339	0.0227	11.16	5.58
81	10.9269	0.0222	10.95	5.47
82	10.7253	0.0218	10.75	5.37
83	10.5288	0.0214	10.55	5.28
84	10.3372	0.0209	10.36	5.18
85	10.1505	0.0205	10.17	5.09
86	9.9685	0.0201	9.99	4.99
87	9.7910	0.0197	9.81	4.91
88	9.6179	0.0194	9.64	4.82
89	9.4491	0.0190	9.47	4.73
90	9.2845	0.0186	9.30	4.65
91	9.1239	0.0183	9.14	4.57
92	8.9672	0.0179	8.99	4.49
93	8.8142	0.0176	8.83	4.42
94	8.6650	0.0173	8.68	4.34
95	8.5193	0.0170	8.54	4.27
96	8.3770	0.0167	8.39	4.20
97	8.2382	0.0164	8.25	4.13
98	8.1026	0.0161	8.12	4.06
99	7.9701	0.0158	7.99	3.99
100	7.8408	0.0155	7.86	3.93