

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 built at an existing communications facility. This site is not an "Historic Place" as described in section 1.1307(a) (4). Therefore, this application is excluded from the preparation of an "Environmental Assessment" pursuant to Section 1.1306 Note 1.

2) Human exposure to excess levels of radiofrequency radiation.

The proposed facility is to be built using a 6-bay circularly polarized full -wave spaced antenna on the same site as the following:

Status	Call	Licensee/Permittee	Channel	City	FIN
Lic	KCSC	The University of Central Oklahoma	211C1	Edmond, OK	66632
Lic	KOPX-TV	Paxson Oklahoma City License, Inc.	50	Oklahoma City	2566

See Exhibit 22-A for antennas that were specified by each licensee/permittee.

As can be seen in the attached analysis, when all facilities are operational, the maximum theoretical RF value would be 68.11 uW/cm^2 at a distance of 44 meters from the tower, which is 34.06% of the 200 uW/cm^2 permitted for public (uncontrolled) exposure, and 6.81% of the 1000 uW/cm^2 permitted for worker (controlled) exposure.

Therefore, the proposed facility complies with the requirements of OET 65.

EMF will fully cooperate with other 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 22-A
RF Analysis: KYLV.P 205C2 Oklahoma City, OK

	KYLV.P	KCSC	KOPX-TV
Site type:	Application	Station	TV station
Channel:	205	211	50
Class:	C2	C1	
ERP:	39 kw	100 kw	2690 kw
Antenna:	ERI	ERI	Dielectric
	Rototiller	dipole	TFU-29JSC
	6-bay	6-bay	
	full wave	full wave	
COR AGL:	194 m	245 m	490 m
Polorization:	circular	circular	horizontal

Distance From Tower (m)	KYLV.P Facility	KCSC Facility	KOPX-TV Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	2.0772	55.6598	0.0230	57.76	28.88
1	2.0772	55.8126	0.0230	57.91	28.96
2	2.0770	55.9638	0.0230	58.06	29.03
3	2.0767	56.1133	0.0230	58.21	29.11
4	2.0763	56.2611	0.0230	58.36	29.18
5	2.0758	56.4071	0.0230	58.51	29.25
6	2.0752	56.5513	0.0230	58.65	29.32
7	2.0744	56.6935	0.0230	58.79	29.40
8	2.0735	56.8337	0.0230	58.93	29.47
9	2.0725	56.9718	0.0230	59.07	29.53
10	2.0713	57.1076	0.0230	59.20	29.60
11	2.0700	57.2411	0.0230	59.33	29.67
12	2.0685	57.3721	0.0230	59.46	29.73
13	2.0668	57.5005	0.0230	59.59	29.80
14	2.0649	57.6260	0.0230	59.71	29.86
15	2.0628	57.7486	0.0230	59.83	29.92
16	2.0605	57.8681	0.0230	59.95	29.98
17	2.0599	57.9842	0.0230	60.07	30.03
18	2.1278	58.0968	0.0230	60.25	30.12
19	2.1964	58.2057	0.0230	60.43	30.21
20	2.2656	58.3106	0.0230	60.60	30.30
21	2.3353	58.4113	0.0230	60.77	30.38
22	2.4055	58.6427	0.0230	61.07	30.54
23	2.4761	58.9738	0.0230	61.47	30.74
24	2.5470	59.3003	0.0230	61.87	30.94
25	2.6182	59.6218	0.0230	62.26	31.13
26	2.6895	59.9380	0.0230	62.65	31.33
27	2.7610	60.2485	0.0230	63.03	31.52
28	2.8324	60.5529	0.0230	63.41	31.70
29	2.9037	60.8509	0.0230	63.78	31.89
30	2.9748	61.1420	0.0230	64.14	32.07
31	3.0456	61.4258	0.0230	64.49	32.25
32	3.1160	61.7019	0.0230	64.84	32.42
33	3.1859	61.9698	0.0230	65.18	32.59
34	3.2551	62.2291	0.0230	65.51	32.75
35	3.3346	62.4793	0.0230	65.84	32.92
36	3.4165	62.7200	0.0230	66.16	33.08
37	3.4977	62.9506	0.0230	66.47	33.24
38	3.5780	63.1706	0.0230	66.77	33.39
39	3.6572	63.3796	0.0230	67.06	33.53
40	3.7353	63.5771	0.0230	67.34	33.67
41	3.8120	63.7625	0.0230	67.60	33.80
42	3.8871	63.9353	0.0230	67.85	33.92
43	3.9606	64.0951	0.0230	68.08	34.04
44	4.0321	64.0568	0.0230	68.11	34.06
45	4.1015	63.9593	0.0230	68.08	34.04

Distance From Tower (m)	KYLV.P Facility	KCSC Facility	KOPX-TV Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	4.1687	63.8486	0.0230	68.04	34.02
47	4.2334	63.7242	0.0230	67.98	33.99
48	4.2955	63.5858	0.0230	67.90	33.95
49	4.3547	63.4331	0.0230	67.81	33.91
50	4.4110	63.2656	0.0230	67.70	33.85
51	4.4640	63.0830	0.0230	67.57	33.78
52	4.5135	62.8850	0.0230	67.42	33.71
53	4.5531	62.6713	0.0230	67.25	33.62
54	4.5890	62.4414	0.0230	67.05	33.53
55	4.6210	62.1953	0.0230	66.84	33.42
56	4.6491	61.9324	0.0230	66.60	33.30
57	4.6730	61.6527	0.0230	66.35	33.17
58	4.6927	61.3557	0.0230	66.07	33.04
59	4.7079	61.0413	0.0230	65.77	32.89
60	4.7187	60.7093	0.0230	65.45	32.73
61	4.7248	60.3594	0.0230	65.11	32.55
62	4.7261	59.9916	0.0230	64.74	32.37
63	4.7227	59.6055	0.0230	64.35	32.18
64	4.7143	59.2011	0.0230	63.94	31.97
65	4.7010	58.7783	0.0230	63.50	31.75
66	4.6827	58.3285	0.0230	63.03	31.52
67	4.6593	57.8447	0.0230	62.53	31.26
68	4.6309	57.3428	0.0230	62.00	31.00
69	4.5974	56.8229	0.0230	61.44	30.72
70	4.5589	56.2849	0.0230	60.87	30.43
71	4.5176	55.7290	0.0230	60.27	30.13
72	4.4748	55.1553	0.0230	59.65	29.83
73	4.4268	54.5638	0.0230	59.01	29.51
74	4.3736	53.9548	0.0230	58.35	29.18
75	4.3154	53.3284	0.0230	57.67	28.83
76	4.2522	52.6848	0.0230	56.96	28.48
77	4.1842	52.0244	0.0230	56.23	28.12
78	4.1115	51.3474	0.0230	55.48	27.74
79	4.0342	50.6541	0.0230	54.71	27.36
80	3.9526	49.9449	0.0230	53.92	26.96
81	3.8667	49.2202	0.0230	53.11	26.55
82	3.7769	48.4804	0.0230	52.28	26.14
83	3.6833	47.7258	0.0230	51.43	25.72
84	3.5861	46.9571	0.0230	50.57	25.28
85	3.4856	46.1747	0.0230	49.68	24.84
86	3.3821	45.3792	0.0230	48.78	24.39
87	3.2758	44.5711	0.0220	47.87	23.93
88	3.1670	43.7510	0.0220	46.94	23.47
89	3.0561	42.9196	0.0220	46.00	23.00
90	2.9432	42.1170	0.0220	45.08	22.54
91	2.8317	41.3107	0.0220	44.16	22.08
92	2.7209	40.4929	0.0220	43.24	21.62
93	2.6088	39.6643	0.0220	42.30	21.15
94	2.4954	38.8258	0.0220	41.34	20.67
95	2.3813	37.9780	0.0220	40.38	20.19
96	2.2667	37.1217	0.0220	39.41	19.71
97	2.1520	36.2578	0.0220	38.43	19.22
98	2.0375	35.3871	0.0220	37.45	18.72
99	1.9236	34.5105	0.0220	36.46	18.23
100	1.8105	33.6288	0.0220	35.46	17.73